APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION
A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 3-17-2011

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2011-51, Randall/Fabyan Improvements

C. PROJECT LOCATION AND BACKGROUND INFORMATION: Near intersection of Randall and Fabyan Rds.
State: Illinois
County/parish/borough: Kane
City: Batavia, Geneva, and Unincorporated
Center coordinates of site (lat/long in degree decimal format): Lat. 41.86191°N, Long. -88.34075°W.
Universal Transverse Mercator: NAD 83

Name of nearest waterbody: McKee Road Tributary
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Fox River
Name of watershed or Hydrologic Unit Code (HUC): Lower Fox (07120007)

☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
☒ Office (Desk) Determination. Date: 3/17/2010
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS
A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There are no “navigable waters of the U.S.” within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]
☒ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.


B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There are “waters of the U.S.” within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.
   a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
   ☐ TNWs, including territorial seas
   ☐ Wetlands adjacent to TNWs
   ☐ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
   ☐ Non-RPWs that flow directly or indirectly into TNWs
   ☒ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
   ☒ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
   ☐ Impoundments of jurisdictional waters
   ☐ Isolated (interstate or intrastate) waters, including isolated wetlands
   
   b. Identify (estimate) size of waters of the U.S. in the review area:
   Non-wetland waters: 100 linear feet: width (ft) and/or acres.
   Wetlands: 93 acres.

   c. Limits (boundaries) of jurisdiction based on: ¹987 Delimitation Manual
   Elevation of established OHWM (if known):

   2. Non-regulated waters/wetlands (check if applicable):³
   ☐ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
   Explain:

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.
² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least “seasonally” (e.g., typically 3 months).
³ Supposing documentation is presented in Section III.F.
SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1 only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1; otherwise, see Section III.B below.

1. TNW
   Identify TNW:  Pick List.

2. Wetland adjacent to TNW
   Summarize rationale supporting conclusion that wetland is “adjacent”:

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under Rapanos have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody\(^1\) is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:
   Watershed size:  Pick List
   Drainage area:  Pick List
   Average annual rainfall:  inches
   Average annual snowfall:  inches

(ii) Physical Characteristics:
   (a) Relationship with TNW:
      - [ ] Tributary flows directly into TNW.
      - [ ] Tributary flows through Pick List tributaries before entering TNW.
      - Project waters are Pick List river miles from TNW.
      - Project waters are Pick List river miles from RPW.
      - Project waters are Pick List aerial (straight) miles from TNW.
      - Project waters are Pick List aerial (straight) miles from RPW.
      - Project waters cross or serve as state boundaries. Explain:
      - Identify flow route to TNW\(^2\):
      - Tributary stream order, if known:

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\(^1\) Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

\(^2\) Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
(b) General Tributary Characteristics (check all that apply):

Tributary is:  
- Natural
- Artificial (man-made). Explain:  
- Manipulated (man-altered). Explain:  

Tributary properties with respect to top of bank (estimate):  
- Average width:  feet
- Average depth:  feet
- Average side slopes: Pick List.

Primary tributary substrate composition (check all that apply):  
- Silts  
- Sands  
- Cobble  
- Gravel  
- Bedrock  
- Vegetation. Type/% cover:  
- Other. Explain:  

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:  
Presence of run/riffle/pool complexes. Explain:  
Tributary geometry: Pick List  
Tributary gradient (approximate average slope):  

(c) Flow:

Tributary provides for: Pick List  
Estimate average number of flow events in review area/year: Pick List  
Describe flow regime:  
Other information on duration and volume:  

Surface flow is: Pick List. Characteristics:  
Subsurface flow: Pick List. Explain findings:  
- Dye (or other) test performed:  

Tributary has (check all that apply):  
- Bed and banks  
- OHWM⁶ (check all indicators that apply):  
- clear, natural line impressed on the bank  
- changes in the character of soil  
- shelving  
- vegetation matted down, bent, or absent  
- leaf litter disturbed or washed away  
- sediment deposition  
- water staining  
- other (list):  
- Discontinuous OHWM.⁷ Explain:  

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):  
- High Tide Line indicated by:  
- Mean High Water Mark indicated by:  
- oil or scum line along shore objects  
- fine shell or debris deposits (foreshore)  
- physical markings/characteristics  
- tidal gauges  
- other (list):  

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain:  
Identify specific pollutants, if known:  

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody’s flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.
(iv) Biological Characteristics. Channel supports (check all that apply):
- Riparian corridor. Characteristics (type, average width):
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings:

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:
   (a) General Wetland Characteristics:
      Properties:
      - Wetland size: acres
      - Wetland type. Explain:
      - Wetland quality. Explain:
      - Project wetlands cross or serve as state boundaries. Explain:
   (b) General Flow Relationship with Non-TNW:
      Flow is: Pick List. Explain:
      Surface flow is: Pick List
      Characteristics:
      Subsurface flow: Pick List. Explain findings:
      - Dye (or other) test performed:
   (c) Wetland Adjacency Determination with Non-TNW:
      - Directly abutting
      - Not directly abutting
      - Discrete wetland hydrologic connection. Explain:
      - Ecological connection. Explain:
      - Separated by berm/barrier. Explain:
   (d) Proximity (Relationship) to TNW
      Project wetlands are Pick List river miles from TNW.
      Project waters are Pick List aerial (straight) miles from TNW.
      Flow is from: Pick List.
      Estimate approximate location of wetland as within the Pick List floodplain.

(ii) Chemical Characteristics:
      Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:
      Identify specific pollutants, if known:

(iii) Biological Characteristics. Wetland supports (check all that apply):
- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings:

3. Characteristics of all wetlands adjacent to the tributary (if any)
   All wetland(s) being considered in the cumulative analysis: Pick List
   Approximately ( ) acres in total are being considered in the cumulative analysis.
For each wetland, specify the following:

<table>
<thead>
<tr>
<th>Name/ID</th>
<th>Directly abuts? (Y/N)</th>
<th>Size (in acres)</th>
<th>Name/ID</th>
<th>Directly abuts? (Y/N)</th>
<th>Size (in acres)</th>
</tr>
</thead>
</table>

Summarize overall biological, chemical and physical functions being performed:

C. **SIGNIFICANT NEXUS DETERMINATION**

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself; then go to Section III.D:

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. **DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):**

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   - TNWs:
   - Linear feet width (ft), or
   - acres.
   - Wetlands adjacent to TNWs:
   - acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: McKee Road Tributary is perennial.
   - Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:
Provide estimates for jurisdictional waters in the review area (check all that apply):
- Tributary waters: 100 linear feet, width (ft).
- Other non-wetland waters: acres.
Identify type(s) of waters: .

3. Non-RPWs* that flow directly or indirectly into TNWs.
- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW's jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
- Tributary waters: linear feet, width (ft).
- Other non-wetland waters: acres.
Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.
- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: McKee Road Tributary is Perennial.
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: >10 acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.
- Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.
- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.*
- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- Demonstrate that impoundment was created from "waters of the U.S." or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):**
- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain: .
- Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

*See Footnote # 3.
**To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
**Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.
Provide estimates for jurisdictional waters in the review area (check all that apply):
- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
- Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
- Prior to the Jan 2001 Supreme Court decision in “SWANCC,” the review area would have been regulated based solely on the “Migratory Bird Rule” (MBR).
- Waters do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction. Explain: .
- Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
- Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- Lakes/ponds: acres.
- Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction (check all that apply):
- Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- Lakes/ponds: acres.
- Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply) - checked items shall be included in case file and, where checked and requested, appropriately reference sources below:
☐ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Wetland Investigation 8/2007.
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters’ study: .
☐ USGS 8 and 12 digit HUC maps.
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of Kane County, Illinois (2003).
☐ National wetlands inventory map(s). Cite name: Aurora North.
☐ State/Local wetland inventory map(s): Kane County ADD, NRCS Swampbuster Map.
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
☐ or ☐ Other (Name & Date): .
☒ Previous determination(s). File no. and date of response letter: LRC-2010-71.
☐ Applicable/supporting scientific literature: .
☐ Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD: Site 1 and 2 contain McKe Road Tributary with abutting wetlands. This flows to Mill Creek and to the Fox River, a navigable waterway and is therefore under Corps Jurisdiction.
ORM Printer Friendly JD Form

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 15-Jan-2011

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LCR-2010-00739-JD

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: IL - Illinois
County/parish/borough: Mokena
City: Barrington Hills
Lat.: 42.17533
Long.: -88.24745

Universal Transverse Mercator

UTM Zone determined by field location

+ NAD83 / UTM Zone 16N

Waters UTM Zone

UTM Zone determined by waters location

+ NAD83 / UTM Zone 16N

Name of nearest waterbody: Fox River

Name of nearest Traditional Navigable Water (TNW):

Name of watershed or Hydrologic Unit Code (HUC): 0712000612

D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 01-Dec-2010
First Determination Date(s): 02-Dec-2010

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION

There "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 326) in the review area.

1. Waters of the U.S.
   a. Indicate presence of waters of U.S. in review area:

<table>
<thead>
<tr>
<th>Water Name</th>
<th>Water Type(s) Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td>Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs</td>
</tr>
</tbody>
</table>

   b. Identify (estimate) size of waters of the U.S. in the review area:

   Area: (sq ft)
   Linear: (m)

   c. Limit (boundaries) of jurisdiction:

   based on:
   OHWM Elevation: (if known)

   2. Non-regulated waters/wetlands:

   Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. TNW

Not Applicable

2. Wetland Adjacent to TNW

Not Applicable

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

   (i) General Area Conditions:

   Watershed size:
   Drainage area:
   Average annual rainfall: inches
   Average annual snowfall: inches

(ii) Physical Characteristics

(a) Relationship with TNW:
- Tributary flows directly into TNW.
- Tributary flows through 1 [tributary] before entering TNW.
- Number of tributaries:

Project waters are [near miles from TNW].
Project waters are [near miles from RW].
Project Waters are aerial [straight] miles from TNW.
Project Waters are aerial [straight] miles from RW.
Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:

Tributary Stream Order, if known:
- Order
- Tributary Name:
  - LRC-2010-739 Wetland 3

(b) General Tributary Characteristics:

Tributary is:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Natural</th>
<th>Artificial</th>
<th>Explain</th>
<th>Manipulated</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>Natural stream channel that has been straightened</td>
</tr>
</tbody>
</table>

Tributary properties with respect to top of bank (estimate):

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Width (ft)</th>
<th>Depth (ft)</th>
<th>Side Slopes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Primary tributary substrate composition:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Silt</th>
<th>Sands</th>
<th>Concrete</th>
<th>Cobble</th>
<th>Gravel</th>
<th>Muck</th>
<th>Bedrock</th>
<th>Vegetation</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tributary (conditions, stability, presence, geometry, gradient):

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Condition/Condition Stability</th>
<th>Run/Pool/Pool Complexes</th>
<th>Geometry</th>
<th>Gradient (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td>Stone visible in photo from consultant</td>
<td>-</td>
<td>Relative straight</td>
<td>-</td>
</tr>
</tbody>
</table>

(c) Flow:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Provides for</th>
<th>Events Per Year</th>
<th>Flow Regime</th>
<th>Duration &amp; Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Surface Flow is:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Surface Flow</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Subsurface Flow:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Subsurface Flow</th>
<th>Explain Findings</th>
<th>Dye (or other) Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tributary bed:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Bed &amp; Banks</th>
<th>OHWM</th>
<th>Discontinuous OHWM?</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If factor other than the OHWM were used to determine lateral extent of CWA jurisdiction:

- High Tides Line indicated by:
  - Not Applicable

Mean High Water Mark indicated by:
- Not Applicable

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film, water quality; general watershed characteristics, etc.).

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Explain</th>
<th>Identify specific pollutants, if known</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(iv) Biological Characteristics. Channel supports:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Riparian Corridor Characteristics</th>
<th>Wetland Fringe Characteristics</th>
<th>Habitat</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Habitat for: (as indicated above)

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Habitat</th>
<th>Federality</th>
<th>Explain Findings</th>
<th>Fish/Swarm Areas</th>
<th>Explain Findings</th>
<th>Other Ecosystemicity</th>
<th>Explain Findings</th>
<th>Aquatic/Wildlife</th>
<th>Explain Fish</th>
</tr>
</thead>
</table>

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

<table>
<thead>
<tr>
<th>Wetland 3</th>
<th>Listed Species</th>
<th>Sensitive Species</th>
<th>Diversity</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(a) General Wetland Characteristics:
- Properties: Not Applicable

(b) General Flow Relationship with Non-TNW:
- Flow is: Not Applicable
- Surface flow is: Not Applicable
- Subsurface flow: Not Applicable

(c) Wetland Adjacency Determination with Non-TNW:
- Not Applicable

(d) Proximity (Relationship) to TNW:
- Not Applicable

(iii) Chemical Characteristics: Characteristic tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.): Not Applicable

(ii) Biological Characteristics: Wetland supports: Not Applicable

3. Characteristics of all wetlands adjacent to the tributary (if any):
- All wetlands being considered in the cumulative analysis: Not Applicable

Summarize overall biological, chemical and physical functions being performed: Not applicable

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g., between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands:
- Not Applicable

2. RPWs that flow directly or indirectly into TNWs:

- LRC-2010-739 Wetland 3 PERENNIAL
- Dashed blue line on USGS map

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td>PERENNIAL</td>
<td>Dashed blue line on USGS map</td>
</tr>
</tbody>
</table>

Provide estimates for jurisdictional waters in the review area:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Type</th>
<th>Size (Linear) (m)</th>
<th>Size (Area) (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRC-2010-739 Wetland 3</td>
<td>Relatively Permanent Waters (RPW) that flow directly or indirectly into TNW</td>
<td>202.3428</td>
<td></td>
</tr>
</tbody>
</table>

Total: 202.3428

3. Non-RPWs that flow directly or indirectly into TNWs:
- Not Applicable

Provide estimates for jurisdictional waters in the review area:
- Not Applicable

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs:
- Not Applicable

Provide acreage estimates for jurisdictional wetlands in the review area:
- Not Applicable

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:
- Not Applicable

Provide acreage estimates for jurisdictional wetlands in the review area:
- Not Applicable
Not Applicable.

6. Wetlands adjacent to non-RWIs that flow directly or indirectly into TNWs: Not Applicable.

Provide estimates for jurisdictional wetlands in the review area: Not Applicable.

7. Impoundments of jurisdictional waters. See Section III below
Not Applicable.

E. ISOLATED [INTERSTATE OF INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATER.

Not Applicable.

Identify water body and summarize rationale supporting determination: Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

F. NON-JURISDICTONAL WATERS, INCLUDING WETLANDS

If potential wetlands were assessed within the review area, TNW areas did not meet the criteria in the 1987 Corps of Engineers Wetland Deletion Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in "SWANCC v. U.S.
Not Applicable.

Identify water body and summarize rationale supporting determination: Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

Identify water body and summarize rationale supporting determination: Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required by jurisdiction (Explain):

Not Applicable.

SECTION IV: DATA SOURCES

A. SUPPORTING DATA.

Data reviewed for JD purposes shall be included in the list and where checked and requested, appropriately reference below:

Data Reviewed

Source Label Source Description

Maps, plans, etc. submitted by or on behalf of the applicant/consultant
Maps from consultant
McHenry County AID, USGS Soil Survey, USGS Topographic, USGS Hydrologic Atlas, FIRM, Wetland Deletion, Site Photographs

Office concurs with data sheet/survey/information in question
Office concurs with data sheet/survey/information in question

Other information
2 Foot Contours On GIS on computer

B. ADDITIONAL COMMENTS TO SUPPORT JD;

Not Applicable.

1. Source checked below shall be supported by completing the appropriate sections in Section III below

2. For purposes of the form, an RWI is defined as a tributary that is not a TNW and that typically flows year round or less constrains flow at least "seasonally" (e.g., typically 3 months).

3. Supporting documentation is presented in Section III.

4. Note that the Institutional Guidance contains additional information regarding wetlands, channels, waters, and associated features generally and in the end West

5. Flow rates can be described by identifying, e.g., hydrograph, which flows through the review area. It flow rate, velocity to which then flows into TNW.

6. A natural or man-made discontinuity in the CHWMA does not necessarily sever jurisdiction (e.g., Where the stream temporarily flow underground, or where the CHWMA has been removed by development or agricultural practices). Where there is a tree groove that is unrelated to the wetlands it is not the same as the tree groove. The tree groove that is unrelated to the wetlands it is not the same as the tree groove.

7. Ibid

8. See footnote 3.


10. See footnote 3.

11. Not Applicable.

12. See footnote 3.


15. Not Applicable.


17. Not Applicable.

18. Not Applicable.


20. Not Applicable.

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

JD Status: DRAFT

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 22-Dec-2010

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2010-00828-JD1

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: IL - Illinois
County/parish/borough: Will
City:
Lat: 41.44628
Long: -87.71329
Universal Transverse Mercator: Folder UTM List
UTM list determined by folder location
• NAD83 / UTM zone 16N
Waters UTM List
UTM list determined by waters location

Name of nearest waterbody:
Name of nearest Traditional Navigable Water (TNW):
Name of watershed or Hydrologic Unit Code (HUC):

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 20-Jan-2011
Field Determination Date(s): 05-Jan-2011

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

1. Waters of the U.S.
   a. Indicate presence of waters of U.S. in review area:

<table>
<thead>
<tr>
<th>Water Name</th>
<th>Water Type(s) Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs</td>
</tr>
</tbody>
</table>

b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²)
Linear: (m)
c. Limits (boundaries) of jurisdiction:
   based on:
   OHWM Elevation: (if known)

2. Non-regulated waters/wetlands.¹
   Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. TNW
   Not Applicable.

2. Wetland Adjacent to TNW
   Not Applicable.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

   1. Characteristics of non-TNWs that flow directly or indirectly into TNW

      (i) General Area Conditions:
         Watershed size:
         Drainage area:
         Average annual rainfall: inches
         Average annual snowfall: inches

   (ii) Physical Characteristics
      (a) Relationship with TNW:
         Tributary flows directly into TNW.
         Tributary flows through [ ] tributaries before entering TNW.
         Number of tributaries
         Project waters are [ ] river miles from TNW.
         Project waters are [ ] river miles from RPW.
         Project Waters are [ ] aerial (straight) miles from TNW.
         Project waters are [ ] aerial (straight) miles from RPW.
         Project waters cross or serve as state boundaries.
         Explain:
         Identify flow route to TNW.²

         Tributary Stream Order, if known:
         Order  Tributary Name
         1       Eastern Pond

(b) General Tributary Characteristics:
   Tributary is:
   Tributary Name | Natural | Artificial | Explain | Manipulated | Explain
   Eastern Pond   | X       | -          | -        | -           | -

   Tributary properties with respect to top of bank (estimate):
   Tributary Name | Width (ft) | Depth (ft) | Side Slopes
   Eastern Pond   | 8         | 2          | 3:1

---

¹https://orm.usace.army.mil/orm2/f?p=106:34:4221578209827065::NO::

³3/23/2011
Primary tributary substrate composition:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Silt</th>
<th>Sands</th>
<th>Concrete</th>
<th>Cobble</th>
<th>Gravel</th>
<th>Muck</th>
<th>Bedrock</th>
<th>Vegetation</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Tributary (conditions, stability, presence, geometry, gradient):

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Condition/Stability</th>
<th>Run\Riffle\Pool Complexes</th>
<th>Geometry</th>
<th>Gradient (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>Tributary is stable.</td>
<td>Absent</td>
<td>Meandering</td>
<td>1</td>
</tr>
</tbody>
</table>

(c) Flow:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Provides for</th>
<th>Events Per Year</th>
<th>Flow Regime</th>
<th>Duration &amp; Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>Perennial flow</td>
<td>20 (or greater)</td>
<td>Creek flows year-round</td>
<td>-</td>
</tr>
</tbody>
</table>

Surface Flow is:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Surface Flow</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>Discrete and confined</td>
<td>Defined bed and banks</td>
</tr>
</tbody>
</table>

Subsurface Flow:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Subsurface Flow</th>
<th>Explain Findings</th>
<th>Dye (or other) Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>Unknown</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Tributary has:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Bed &amp; Banks</th>
<th>OHWM</th>
<th>Discontinuous OHWM?</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

High Tide Line indicated by:
Not Applicable.

Mean High Water Mark indicated by:
Not Applicable.

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolorated, oily film; water quality; general watershed characteristics, etc.).

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Explain</th>
<th>Identify specific pollutants, if known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>Water color is cloudy.</td>
<td>Sediment, road salt and grease/oils</td>
</tr>
</tbody>
</table>

(iv) Biological Characteristics. Channel supports:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Riparian Corridor</th>
<th>Characteristics</th>
<th>Wetland Fringe</th>
<th>Characteristics</th>
<th>Habitat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:
(a) General Wetland Characteristics:
Properties:
Not Applicable.

(b) General Flow Relationship with Non-TNW:
Flow is:
Not Applicable.

Surface flow is:
Not Applicable.

Subsurface flow:
Not Applicable.

(c) Wetland Adjacency Determination with Non-TNW:
Not Applicable.

(d) Proximity (Relationship) to TNW:
Not Applicable.

(ii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Not Applicable.

(iii) Biological Characteristics. Wetland supports:
Not Applicable.

3. Characteristics of all wetlands adjacent to the tributary (if any):
All wetlands being considered in the cumulative analysis:
Not Applicable.

Summarize overall biological, chemical and physical functions being performed:
Not Applicable.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands:
Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>PERENNIAL</td>
<td>Pond has water year-round.</td>
</tr>
</tbody>
</table>

Provide estimates for jurisdictional waters in the review area:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Type</th>
<th>Size (Linear) (m)</th>
<th>Size (Area) (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Pond</td>
<td>Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs</td>
<td>-</td>
<td>7689.0264</td>
</tr>
<tr>
<td>Total:</td>
<td></td>
<td>0</td>
<td>7689.0264</td>
</tr>
</tbody>
</table>

3. Non-RPWs that flow directly or indirectly into TNWs:
Not Applicable.
Provide estimates for jurisdictional waters in the review area:
Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.
Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:
Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:
Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:
Not Applicable.

7. Impoundments of jurisdictional waters.\textsuperscript{9}
Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS.\textsuperscript{10}
Not Applicable.

Identify water body and summarize rationale supporting determination:
Not Applicable.

Provide estimates for jurisdictional waters in the review area:
Not Applicable.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:
Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR):
Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:
Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.
Not Applicable.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD:
(listed items shall be included in case file and, where checked and requested, appropriately reference below):

| Data Reviewed | Source Label | Source Description |

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Description
Site visit on January 5, 2011 to document flow out of pond via drop structure and into nearby creek.

---

1. Boxes checked below shall be supported by completing the appropriate sections in Section III below.
2. For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
3. Supporting documentation is presented in Section III.F.
4. Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
5. A flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
6. A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
7. Ibid.
8. See Footnote #3.
9. To complete the analysis refer to the key in Section III.D.5 of the Instructional Guidebook.
10. Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

JD Status: DRAFT

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 22-Dec-2010

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2010-00828-JD2

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: IL - Illinois
County/parish/borough: Will
City:
Lat: 41.44628
Long: -87.71329
Universal Transverse Mercator

Folder UTM List

UTM list determined by folder location
- NAD83 / UTM zone 16N

Waters UTM List

UTM list determined by waters location

Name of nearest waterbody:
Name of nearest Traditional Navigable Water (TNW):
Name of watershed or Hydrologic Unit Code (HUC):

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 20-Jan-2011
Field Determination Date(s): 05-Jan-2011

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There "navigable waters of the U.S. within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

1. Waters of the U.S.
   a. Indicate presence of waters of U.S. in review area:

<table>
<thead>
<tr>
<th>Water Name</th>
<th>Water Type(s) Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs</td>
</tr>
</tbody>
</table>

   b. Identify (estimate) size of waters of the U.S. in the review area:

   Area: (m²)
   Linear: (m)
c. Limits (boundaries) of jurisdiction:
   based on:
   OHWM Elevation: (if known)

2. Non-regulated waters/wetlands:³

   Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. TNW
   Not Applicable.

2. Wetland Adjacent to TNW
   Not Applicable.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

   (i) General Area Conditions:
      Watershed size:
      Drainage area:
      Average annual rainfall: inches
      Average annual snowfall: inches

   (ii) Physical Characteristics
      (a) Relationship with TNW:
         Tributary flows directly into TNW.
         Tributary flows through [ ] tributaries before entering TNW.
      Number of tributaries
      Project waters are river miles from TNW.
      Project waters are river miles from RPW.
      Project Waters are aerial (straight) miles from TNW.
      Project waters are aerial (straight) miles from RPW.
      Project waters cross or serve as state boundaries.

   Explain:
   Identify flow route to TNW:⁵

   Tributary Stream Order, if known:
   
<table>
<thead>
<tr>
<th>Order</th>
<th>Tributary Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Western Pond</td>
</tr>
</tbody>
</table>

   (b) General Tributary Characteristics:
   Tributary is:
   
<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Natural</th>
<th>Artificial</th>
<th>Explain</th>
<th>Manipulated</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

   Tributary properties with respect to top of bank (estimate):
   
<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Width (ft)</th>
<th>Depth (ft)</th>
<th>Side Slopes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>8</td>
<td>2</td>
<td>3:1</td>
</tr>
</tbody>
</table>

Primary tributary substrate composition:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Silt</th>
<th>Sands</th>
<th>Concrete</th>
<th>Cobble</th>
<th>Gravel</th>
<th>Muck</th>
<th>Bedrock</th>
<th>Vegetation</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Tributary (conditions, stability, presence, geometry, gradient):

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Condition/Stability</th>
<th>RunIRifflePool Complexes</th>
<th>Geometry</th>
<th>Gradient (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>Tributary is stable.</td>
<td>Absent</td>
<td>Meandering</td>
<td>1</td>
</tr>
</tbody>
</table>

(c) Flow:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Provides for</th>
<th>Events Per Year</th>
<th>Flow Regime</th>
<th>Duration &amp; Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>Perennial flow</td>
<td>20 (or greater)</td>
<td>Creek flows year-round</td>
<td>-</td>
</tr>
</tbody>
</table>

Surface Flow is:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Surface Flow</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>Discrete and confined</td>
<td>Defined bed and bank</td>
</tr>
</tbody>
</table>

Subsurface Flow:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Subsurface Flow</th>
<th>Explain Findings</th>
<th>Dye (or other) Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>Unknown</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Tributary has:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Bed &amp; Banks</th>
<th>OHWM</th>
<th>Discontinuous OHWM</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

High Tide Line indicated by:
Not Applicable.

Mean High Water Mark indicated by:
Not Applicable.

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality: general watershed characteristics, etc.).

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Explain</th>
<th>Identify specific pollutants, if known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>Tributary is cloudy.</td>
<td>Sediment, road salt and gresse/oils.</td>
</tr>
</tbody>
</table>

(iv) Biological Characteristics. Channel supports:

<table>
<thead>
<tr>
<th>Tributary Name</th>
<th>Riparian Corridor</th>
<th>Characteristics</th>
<th>Wetland Fringe</th>
<th>Characteristics</th>
<th>Habitat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:
(a) General Wetland Characteristics:
Properties:
Not Applicable.

(b) General Flow Relationship with Non-TNW:
Flow is:
Not Applicable.

Surface flow is:
Not Applicable.

Subsurface flow:
Not Applicable.

(c) Wetland Adjacency Determination with Non-TNW:
Not Applicable.

(d) Proximity (Relationship) to TNW:
Not Applicable.

(ii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Not Applicable.

(iii) Biological Characteristics. Wetland supports:
Not Applicable.

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:
Not Applicable.

Summarize overall biological, chemical and physical functions being performed:
Not Applicable.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g., between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands:
Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>PERENNIAL</td>
<td>Pond has water year-round.</td>
</tr>
</tbody>
</table>

Provide estimates for jurisdictional waters in the review area:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Type</th>
<th>Size (Linear) (m)</th>
<th>Size (Area) (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Pond</td>
<td>Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs</td>
<td>-</td>
<td>1618.7424</td>
</tr>
<tr>
<td>Total:</td>
<td></td>
<td>0</td>
<td>1618.7424</td>
</tr>
</tbody>
</table>

3. Non-RPWs that flow directly or indirectly into TNWs.?
Not Applicable.
Provide estimates for jurisdictional waters in the review area:
Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.
Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:
Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:
Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:
Not Applicable.

7. Impoundments of jurisdictional waters:  
Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS: 
Not Applicable.

Identify water body and summarize rationale supporting determination:
Not Applicable.

Provide estimates for jurisdictional waters in the review area:
Not Applicable.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:
Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.
Not Applicable.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD
(listed items shall be included in case file and, where checked and requested, appropriately reference below):

| Data Reviewed | Source Label | Source Description |

3/23/2011
---Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant
---Data sheets prepared/submitted by or on behalf of the applicant/consultant
—Office concurs with data sheets/delineation report
---Corps navigable waters study
---U.S. Geological Survey Hydrologic Atlas
---USGS 8 and 12 digit HUC maps
---U.S. Geological Survey map(s).
---USDA Natural Resources Conservation Service Soil Survey
---National wetlands inventory map(s).
---FEMA/FIRM maps
---Photographs
---Aerial
---Applicable/supporting case law
---Other information

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Description

Site visit on January 5, 2011 to document flow out of pond via drop structure and into nearby creek.

---Boxes checked below shall be supported by completing the appropriate sections in Section III below.
---For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
---Supporting documentation is presented in Section III.F.
---Note that the instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
---Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
---A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody’s flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
---Ibid.
---See footnote #3.
---To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
---Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.
APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

JD Status: DRAFT

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 11-Feb-2011

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, LRC-2009-00394-JD3

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: IL - Illinois
County/parish/borough: DuPage
City:
Lat: 41.7846
Long: -88.2325

Universal Transverse Mercator
Folder UTM List
UTM list determined by folder location
- NAD83 / UTM zone 16N

Waters UTM List
UTM list determined by waters location
- NAD83 / UTM zone 16N

Name of nearest waterbody:
Name of nearest Traditional Navigable Water (TNW):
Name of watershed or Hydrologic Unit Code (HUC):

- Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
- Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 15-Feb-2011
Field Determination Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

- Waters subject to the ebb and flow of the tide.
- Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area:

<table>
<thead>
<tr>
<th>Water Name</th>
<th>Water Type(s) Present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 11</td>
<td>Wetlands directly abutting RPIWs that flow directly or indirectly into TNWs</td>
</tr>
</tbody>
</table>

b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²)

Linear: (m)

c. Limits (boundaries) of jurisdiction:
   based on:
   OHWM Elevation: (if known)

2. Non-regulated waters/wetlands:
   Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. TNW
   Not Applicable.

2. Wetland Adjacent to TNW
   Not Applicable.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:
   Watershed size:
   Drainage area:
   Average annual rainfall: inches
   Average annual snowfall: inches

(ii) Physical Characteristics
   (a) Relationship with TNW:
      Tributary flows directly into TNW.
      Tributary flows through [ ] tributaries before entering TNW.
      Number of tributaries
      Project waters are river miles from TNW.
      Project waters are river miles from RPW.
      Project Waters are aerial (straight) miles from TNW.
      Project waters are aerial(straight) miles from RPW.
      Project waters cross or serve as state boundaries.
      Explain:
      Identify flow route to TNW:

   Tributary Stream Order, if known:
   Not Applicable.

(b) General Tributary Characteristics:
   Tributary is:
   Not Applicable.

   Tributary properties with respect to top of bank (estimate):
   Not Applicable.

   Primary tributary substrate composition:
   Not Applicable.

   Tributary (conditions, stability, presence, geometry, gradient):
   Not Applicable.
(c) Flow:  
Not Applicable.

Surface Flow is:  
Not Applicable.

Subsurface Flow:  
Not Applicable.

Tributary has:  
Not Applicable.

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

High Tide Line indicated by:  
Not Applicable.

Mean High Water Mark indicated by:  
Not Applicable.

(iii) Chemical Characteristics:  
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).  
Not Applicable.

(iv) Biological Characteristics. Channel supports:  
Not Applicable.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(b) General Wetland Characteristics:

Properties:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Size (Acres)</th>
<th>Wetland Type</th>
<th>Wetland Quality</th>
<th>Cross or Serve as State Boundaries. Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 11</td>
<td>.5</td>
<td>Emergent</td>
<td>Low</td>
<td>-</td>
</tr>
</tbody>
</table>

(b) General Flow Relationship with Non-TNW:

Flow is:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 11</td>
<td>Perennial flow</td>
<td>-</td>
</tr>
</tbody>
</table>

Surface flow is:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 11</td>
<td>Discrete and confined</td>
<td>Tributary has defined bed and bank.</td>
</tr>
</tbody>
</table>

Subsurface flow:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Subsurface Flow</th>
<th>Explain Findings</th>
<th>Dye (or other) Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 11</td>
<td>Unknown</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(c) Wetland Adjacency Determination with Non-TNW:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Directly Abutting</th>
<th>Discrete Wetland Hydrologic Connection</th>
<th>Ecological Connection</th>
<th>Separated by Berm/Barrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 11</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(d) Proximity (Relationship) to TNW:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>River Miles From TNW</th>
<th>Aerial Miles From TNW</th>
<th>Flow Direction</th>
<th>Within Floodplain</th>
</tr>
</thead>
</table>
(ii) Chemical Characteristics:  
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).  
<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Explain</th>
<th>Identify specific pollutants, if known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 11</td>
<td>-</td>
<td>Road salts, grease and oil.</td>
</tr>
</tbody>
</table>

(iii) Biological Characteristics. Wetland supports:  
<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Riparian Buffer Characteristics</th>
<th>Vegetation</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 11</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

3. Characteristics of all wetlands adjacent to the tributary (if any):  

All wetlands being considered in the cumulative analysis:  
Not Applicable.

Summarize overall biological, chemical and physical functions being performed:  
Not Applicable.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g., between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands:  
Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:  
Not Applicable.

Provide estimates for jurisdictional waters in the review area:  
Not Applicable.

3. Non-RPWs that flow directly or indirectly into TNWs:  
Not Applicable.

Provide estimates for jurisdictional waters in the review area:  
Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 11</td>
<td>PERENNIAL</td>
<td>Tributary flows during growing season.</td>
</tr>
</tbody>
</table>

Provide acreage estimates for jurisdictional wetlands in the review area:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Type</th>
<th>Size (Linear) (m)</th>
<th>Size (Area) (m²)</th>
</tr>
</thead>
</table>

2/15/2011
### Site 11

<table>
<thead>
<tr>
<th>Wetlands directly abutting RPWs that flow directly or indirectly into TNWs</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total:</td>
<td>203.428</td>
</tr>
</tbody>
</table>

#### 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:
Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
Not Applicable.

#### 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:
Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:
Not Applicable.

#### 7. Impoundments of jurisdictional waters.\(^9\)
Not Applicable.

**E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:**\(^10\)
Not Applicable.

**Identify water body and summarize rationale supporting determination:**
Not Applicable.

Provide estimates for jurisdictional waters in the review area:
Not Applicable.

### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:
  - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR):
    - Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:
Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.
Not Applicable.

### SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD

<table>
<thead>
<tr>
<th>Data Reviewed</th>
<th>Source Label</th>
<th>Source Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maps, plans, plots or plot submitted by or on behalf of the applicant/consultant</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Data sheets prepared/submitted by or on behalf of the applicant/consultant</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Office concurs with data sheets/delineation report</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>U.S. Geological Survey Hydrologic Atlas</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>USGS 8 and 12 digit HUC maps</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
B. ADDITIONAL COMMENTS TO SUPPORT JD:

| Description | Revised delineation of Area 7 expands to Area 11, which is along the roadway. |

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1. Boxes checked below shall be supported by completing the appropriate sections in Section III below.
2. For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
3. Supporting documentation is presented in Section III.F.
4. Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
5. Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
6. A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
7. Ibid.
8. See Footnote #3.
9. To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
10. Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanza.
SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 21-Mar-2011

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Chicago District, URC-2010-0384-JD1

C. PROJECT LOCATION AND BACKGROUND INFORMATION:
   State: IL - Illinois
   County/Parish/Borough: DuPage
   City: 
   LAT: 41.82164
   Long: -88.17282
   Universal Transverse Mercator: Field UTM List
   UTM list determined by feature location
   NAD83 / UTM zone 16N
   Waters UTM List
   UTM list determined by waters location
   NAD83 / UTM zone 16N

Name of nearest waterbody:
Name of nearest Traditional Navigable Water (TNW):
Name of nearest Traditional Navigable Water or Hydrologic Unit Code (HUIC):

Check if map of project area and/or potential jurisdictional areas is available upon request.
Check if other sources (e.g., digital mitigation sites, disposal sites, etc.) are associated with the active and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION:
   Office Determination Date: 21-Mar-2011
   Field Determination Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION
   There are navigable waters of the U.S. within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 328) in the review area.
   Waters subject to the use and flow of the tide.

B. CWA SECTION 404 DETERMINATION OF JURISDICTION
   There are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

1. Waters of the U.S.
   a. Indicate presence of waters of U.S. in review area: [ ]
      Water Name: [ ]
      Water Type(s): [ ]
      UIC-2010-384 West Branch DuPage River: [ ]
      Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs: [ ]

2. Identify (estimate) size of waters of the U.S. in the review area:
   Area: [ ]
   Linear: [ ]
   Limits (boundaries) determined:
   Based on:
   OHWM Elevation: [ ]

3. Non-regulated waters/wetlands: [ ]
   Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: [ ]

SECTION III: CWA ANALYSIS
A. TNWs AND WETLANDS ADJACENT TO TNWs

1. TNW
   Not Applicable.

2. Wetlands Adjacent to TNW
   Not Applicable.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

1. Characteristics of non-TNWs that flow directly or indirectly into TNW
   (i) General Area Conditions:
   - Watershed size: 
   - Drainage area: 
   - Average annual rainfall: inches
   - Average annual snowfall: inches

   (ii) Physical Characteristics
   (a) Relationship with TNW:
   - Tributary flows directly into TNW.
   - Tributary flows through | Tributaries before entering TNW.
   - Number of tributaries:
   - Project waters are river miles from TNW.
   - Project waters are river miles from RPW.
   - Project Waters are mean (straight) miles from TNW.
   - Project Waters are mean (straight) miles from RPW.
   - Project water class or serve as important boundaries.
   - Explain:
   - Identify flow route to TNW:

   Tributary Stream Order, if known:
   - Order
   - Tributary Name
   - LRC-2010-384 West Branch DuPage River

   (b) General Tributary Characteristics:
   - Tributary is:
   - LRC-2010-384 West Branch DuPage River
   - Natural
   - Artificial
   - Explain
   - Manipulated
   - Explain

   Tributary properties with respect to top of bank (estimate):
   - Tributary Name
   - LRC-2010-384 West Branch DuPage River
   - Width (ft)
   - 50
   - Depth (ft)
   - 3
   - Side Slopes
   - 3.1

   Primary tributary substrate composition:
   - Tributary Name
   - LRC-2010-384 West Branch DuPage River
   - Silt
   -
   - Sands
   -
   - Gravel
   -
   - Bedrock
   -
   - Vegetation
   -
   - Other
   -

   Tributary (conditions, stability, shape, geometry, gradient):
   - Tributary Name
   - LRC-2010-384 West Branch DuPage River
   - Condition/Stability
   - mostly stable, minor erosion
   - Runoff/Flow Complexes
   - no notable features
   - Geometry
   - relatively straight
   - Gradient (%)
   - 1.5

   (c) Flow:
   - Tributary Name
   - LRC-2010-384 West Branch DuPage River
   - Provides for
   - Events Per Year
   - Flow Regime
   - Duration & Volume
   - Surface Flow is:
   - Tributary Name
   - Surface Flow
   - Characteristics
**Subsurface Flow:**
- Tributary Name: LRC-2010-384 West Branch DuPage River
- Subsurface Flow: unknown
- Explain Findings: (or other) Test

**Tributary Data:**
- Tributary Name: LRC-2010-384 West Branch DuPage River
- Bed & Banks: X
- OHWM: X
- Debris/Debris: X

**Tributaries with OHWM (as indicated above):**
- Tributary Name: LRC-2010-384 West Branch DuPage River
- OHWM: X
- Clear: X
- Litter Changes: in Soil
- Distribution Vegetation: Species
- Stick: X
- Wrack Line: X
- Matted Vegetation: X
- Sediment Sorting: X
- Leaf Litter: X
- Scour: X
- Sediment Deposition: X
- Flow Events: X
- Water Staining: X
- Changes Plant: X
- Other: X

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

**High Tide Line indicated by:**
- Not Applicable

**Mean High Water Mark indicated by:**
- Not Applicable

**Chemical Characteristics:**
- Characterize tributary (e.g., water color or clear, discolored, oily film; water quality; general watershed characteristics, etc.).
- Tributary Name: LRC-2010-384 West Branch DuPage River
- Explain: Identify specific pollutants, if known

**Biological Characteristics:**
- Channel Surveys:
- Tributary Name: LRC-2010-384 West Branch DuPage River
- Perennial Corridor: X
- Characteristics: X
- Wetland Fringe: X
- Characteristics: X
- Habitat: X

**Habitat for: (as indicated above):**
- Tributary Name: LRC-2010-384 West Branch DuPage River
- Federally Listed Species: X
- Explain Findings: X
- Fish Spawn Areas: X
- Explain Findings: X
- Other Environmentally Sensitive Species: X
- Explain Findings: X
- Aquatic/Wildlife Diversity: X
- Explain Findings: X

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW:**

(a) Physical Characteristics:
(b) General Wetland Characteristics:
- Properties: Not Applicable
- General Flow Relationship with Non-TNW:
- Flow is: Not Applicable
- Surface Flow is: Not Applicable
- Subsurface Flow: Not Applicable
- Wetland Adjacency Determination with non-TNW:
- Not Applicable
- Proximity (Relationship) to TNW:
- Not Applicable

http://orn.usace.army.mil/orm2/pip-106.34/724943947011798-NO:
3 21 2011
C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to, the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g., between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands:
   Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:
   Not Applicable.

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Flow</th>
<th>Explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRC-2010-184 West Branch DuPage River</td>
<td>PERENNIAL</td>
<td></td>
</tr>
</tbody>
</table>

Provide estimates for jurisdictional waters in the review area:

<table>
<thead>
<tr>
<th>Wetland Name</th>
<th>Type</th>
<th>Size (Linear) (m)</th>
<th>Size (Area) (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRC-2010-334 West Branch DuPage River</td>
<td>Relatively Permanent Waters (RPW) that flow directly or indirectly into TNWs</td>
<td>-</td>
<td>1477.19244</td>
</tr>
</tbody>
</table>

Total: 0

3. Non-RPWs that flow directly or indirectly into TNWs:
   Not Applicable.

Provide estimates for jurisdictional waters in the review area:
   Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs:
   Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
   Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:
   Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
   Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:
   Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:
   Not Applicable.

7. Impoundments of jurisdictional waters:
   Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS.
Not Applicable.

Identify water body and summarize rationale supporting determination:
Not Applicable.

Provide estimates for jurisdictional waters in the review area:
Not Applicable.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. 

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Navigable Water Rule" (NBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required tojurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:
Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction:
Not Applicable.

SECTION IV: DATA SOURCES:

A. SUPPORTING DATA. Data reviewed for JD (date(s)) shall be indicated in note(s) and/or where checked and request an appropriate reference below:

<table>
<thead>
<tr>
<th>Data Reviewed</th>
<th>Source Label</th>
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<tbody>
<tr>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Photographs</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

B. ADDITIONAL COMMENTS TO SUPPORT JD:
Not Applicable.

1. Boxes checked below shall be supported by completing the appropriate sections in Section III below.
2. For purposes of this form, an "SWANCC" is defined as a tributary that is not a TWW and that typically flows year-round or has continuous flow at least "seasonally" (e.g. typically 3 months).
3. Supporting documentation is presented in Section II.
4. Note that the Instructional Guidebook contains additional information regarding channels, ditches, washes, and seasonal features generally and in the end game.
5. A natural or re-established stream in the DMW has two necessary issues: the stream has not been physically altered or impaired, and the stream has a general direction and flow.
6. An example of an unnatural stream in the DMW is one that is not a natural stream that has been physically altered or impaired, and the stream is a general direction and flow.
7. A natural or re-established stream in the DMW has a general direction and flow, and the stream has not been physically altered or impaired.
8. See "Addenda #2".
9. Refer to Title 33, Section 28, of the Instructional Guidebook.
10. Prior to assessing whether the CQA jurisdiction based solely on this category, Corps Districts shall elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Receipt.


3/21/2011