### WETLAND DETERMINATION SUPPLEMENTAL FORM

**Project/Site:** Chicago O'Hare International Airport (ORD)  
**City/County:** DuPage/Cook  
**Sampling Date:** 9/24/19  
**Applicant/Owner:** City of Chicago  
**State:** Illinois  
**Investigator(s):** Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.  
**Section, Township, Range:**  
**WNI classification:** PEM  
**Area now regularly used for construction:**

**Are climatic hydrologic conditions on the site typical for this time of year?** Yes [ ] No [X]  
**Are Vegetation [X], Soil [ ] , or Hydrology [ ] significantly disturbed?**  
**Are Vegetation [ ] , Soil [X], or Hydrology [ ] naturally problematic?**

### ADDITIONAL VEGETATION - Use scientific names of plants

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>General location within wetland</th>
</tr>
</thead>
<tbody>
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<td>1.</td>
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<td>5.</td>
<td>= Total Cover</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Sapling/Shrub Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
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</tr>
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<tr>
<td>5.</td>
<td>= Total Cover</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>General location within wetland</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Physicums virginianum</td>
<td>X</td>
<td>FACW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Eleocharis acicularis</td>
<td></td>
<td>ABL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Elymus elymoides</td>
<td></td>
<td>FACW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Ipomoea funesta</td>
<td></td>
<td>FACW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Sp. canescens</td>
<td></td>
<td>FACW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Tripterygium pinnatum</td>
<td></td>
<td>FACW</td>
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<td>7.</td>
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<td>11.</td>
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<tr>
<td>12.</td>
<td>= Total Cover</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Wood Vine Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>General location within wetland</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>2.</td>
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<tr>
<td></td>
<td>= Total Cover</td>
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</tr>
</tbody>
</table>

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

- Shallow depression around a drop inlet within a cloverland of D90 west
- Subwater alluvial
- Geoglyphe for FAC Neutral
- Depleted marsh

**Pics 2:10**
### WETLAND DETERMINATION SUPPLEMENTAL FORM

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Absolute %-Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>General Location within Wetland</th>
<th>Other Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Asphalt slope from parking lot</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Run Off</td>
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<td></td>
<td>Depleted matrix</td>
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<td></td>
<td>Geomorphic Position</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Some standing water in run</td>
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</tbody>
</table>

### ADDITIONAL VEGETATION - Use scientific names of plants

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<th>Sapling/Shrub Stratum</th>
<th>Total Cover</th>
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</table>

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>Total Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Phragmites australis</td>
<td>X</td>
</tr>
<tr>
<td>2. Salix nigra</td>
<td>X</td>
</tr>
<tr>
<td>3. Symphoricarpos albus</td>
<td>X</td>
</tr>
<tr>
<td>4. Epilobium ciliatum</td>
<td>X</td>
</tr>
<tr>
<td>5. Piptochaeta racemosa</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wood Vene Stratum</th>
<th>Total Cover</th>
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</thead>
</table>

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

- Depression
- +3:00
**WETLAND DETERMINATION SUPPLEMENTAL FORM**

Project/Site: Chicago O'Hare International Airport (ORD)  
City/County: DuPage/Cook  
Sampling Date: 9/24/19  
Applicant/Owner: City of Chicago  
State: Illinois  
Wetland #: SE19-138  
Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.  
Section, Township, Range:  
NWI classification:  

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

Are Vegetation [ ], Soil [ ], or Hydrology [ ] significantly disturbed?  
Are Vegetation [ ], Soil [ ], or Hydrology [ ] naturally problematic?

**ADDITIONAL VEGETATION - Use scientific names of plants**

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Absolute</th>
<th>Dominant</th>
<th>Indicator</th>
<th>Status</th>
<th>General location within wetland</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td></td>
<td></td>
<td></td>
<td>At base of slopes and asphalt pavement from parking lot.</td>
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</table>

** Sapling/Shrub Stratum**

<table>
<thead>
<tr>
<th>Sapling/Shrub Stratum</th>
<th>% Cover</th>
<th>Species?</th>
<th>Indicator</th>
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<th>General location within wetland</th>
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</thead>
<tbody>
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<td>1.</td>
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**Herb Stratum**

<table>
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<tbody>
<tr>
<td>1. Phragmites australis X</td>
<td>FACW</td>
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<tr>
<td>2. Typha angustifolia</td>
<td>OBL</td>
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<tr>
<td>3. Schoenoplectus cuspidatus</td>
<td>FACW</td>
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<tr>
<td>4. Sol songaricus</td>
<td>FACW</td>
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<tr>
<td>5. Hardina nuttalliana</td>
<td>FAC</td>
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<tr>
<td>6. Symphyotrichum</td>
<td>DVL</td>
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<td>7. Elymus repens</td>
<td>DVL</td>
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<tr>
<td>8. Eleocharis palustris</td>
<td>DVL</td>
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Remarks: (Include photo numbers here or on a separate sheet.)

Depression
### WETLAND DETERMINATION SUPPLEMENTAL FORM

**Project/Site:** Chicago O'Hare International Airport (ORD)  
**City/County:** DuPage/Cook  
**Sampling Date:** 9/24/19  
**Applicant/Owner:** City of Chicago  
**State:** Illinois  
**Investigator(s):** Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.  
**Section, Township, Range:**  
**NWI classification:** P EM

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

**Are Vegetation [x], Soil [x], or Hydrology [x] significantly disturbed?**  
(If yes, explain in Remarks.)

**Are Vegetation [x], Soil [x], or Hydrology [x] naturally problematic?**

### ADDITIONAL VEGETATION - Use scientific names of plants

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<td>5.</td>
<td>= Total Cover</td>
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<th>Herb Stratum</th>
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<th>Indicator Status</th>
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<th>Other Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Diplocladus subalpinus X</td>
<td>OBL</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>2. Pterostegium australe X</td>
<td>FACW</td>
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<tr>
<td>3. Spicisporus cymosus</td>
<td>FACW</td>
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<tr>
<td>4. Dryopteris filix-mas</td>
<td>FACW</td>
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<tr>
<td>5. Deschampsia cespitosa</td>
<td>FACW</td>
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<tr>
<td>6. Carex testacea</td>
<td>FACW</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>7. Carex elata</td>
<td>FACW</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>8. Eleocharis engleri X</td>
<td>OBL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Bellis perennis</td>
<td>OBL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Tythaelia alata</td>
<td>OBL</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>11. Schoenoplectus pungens</td>
<td>OBL</td>
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<tr>
<td>12. Coix sp.</td>
<td>FACW</td>
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<table>
<thead>
<tr>
<th>Wood Vine Stratum</th>
<th>Absolute % Cover</th>
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<td>1.</td>
<td></td>
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<tr>
<td>2.</td>
<td>= Total Cover</td>
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</tbody>
</table>

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

Depression

**Pics 4:45**
WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD)  
City/County: DuPage/Cook  
Sampling Date: 9/24/19

Applicant/Owner: City of Chicago  
State: Illinois  
Wetland #: NE19-140

Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.  
Section, Township, Range: P3EM

NWI classification: _NA_ (If no, explain in Remarks.)

Are climatic hydrologic conditions on the site typical for this time of year? Yes [ ] No [ ]

Are Vegetation [x], Soil [x], or Hydrology [x] significantly disturbed?

Are Vegetation [ ], Soil [ ], or Hydrology [ ] naturally problematic?

Additional Vegetation - Use scientific names of plants

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
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</tr>
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<tbody>
<tr>
<td>1.</td>
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<tr>
<td>2.</td>
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<td>5.</td>
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= Total Cover

Sapling/Shrub Stratum

| 1.           |                  |                  |                 |
| 2.           |                  |                  |                 |
| 3.           |                  |                  |                 |
| 4.           |                  |                  |                 |
| 5.           |                  |                  |                 |

= Total Cover

Herb Stratum

| 1.           | Typha angustifolia | OBL               |
| 2.           | Juncus effusus    | OBL               |
| 3.           | Phragmites australis | FACU             |
| 4.           | Cyperus esculentus | FACU             |
| 5.           | Venenica hastata  | FACU             |
| 6.           | Sagittaria rigida  | FACU             |
| 7.           | Dipsacus communis  | OBL               |
| 8.           | Elytrigia elongata | OBL               |

= Total Cover

Wood Vine Stratum

| 1.           |                  |                  |                 |
| 2.           |                  |                  |                 |

= Total Cover

General location within wetland:

Peas 5'30

Other Notes:

- Depressed meadows
  - Flooded surface
    (A/2)
  - Saturation at surface
  - Geomorphic Not
  - FAC - Natural

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

Depression
### WETLAND DETERMINATION SUPPLEMENTAL FORM

**Project/Site:** Chicago O'Hare International Airport (ORD)  
**City/County:** DuPage/Cook  
**Sampling Date:** 9/25/19  
**Applicant/Owner:** City of Chicago  
**State:** Illinois  
**Investigator(s):** Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.  
**Section, Township, Range:**  

**WNI classification:** PBW

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

Are Vegetation [ ], Soil [ ], or Hydrology [ ] significantly disturbed?  
Are Vegetation [ ], Soil [ ], or Hydrology [ ] naturally problematic?

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</table>

**Sapling/Shrub Stratum**

<table>
<thead>
<tr>
<th></th>
<th>= Total Cover</th>
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</thead>
</table>

**Herb Stratum**

<table>
<thead>
<tr>
<th></th>
<th>= Total Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phragmites australis</td>
<td>FEM</td>
</tr>
<tr>
<td>Juncus effusus</td>
<td>DBL</td>
</tr>
<tr>
<td>Typha angustifolia</td>
<td>DBL</td>
</tr>
<tr>
<td>Juncus effusus</td>
<td>DBL</td>
</tr>
<tr>
<td>Schoenoplectus atrovirens</td>
<td>DBL</td>
</tr>
<tr>
<td>Bidens sp</td>
<td></td>
</tr>
</tbody>
</table>

**Wood Vine Stratum**

<table>
<thead>
<tr>
<th></th>
<th>Total Cover</th>
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</table>

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

Revisited 10/13 to add to delimitation, Depression.
## WETLAND DETERMINATION SUPPLEMENTAL FORM

**Project/Site:** Chicago O'Hare International Airport (ORD)  
**City/County:** DuPage/Cook  
**Sampling Date:** 9/25/19  
**Applicant/Owner:** City of Chicago  
**State:** Illinois  
**Investigator(s):** Braung Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.  
**Wetland #:** SW9-142

### NWI classification: PEM

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

**Are Vegetation [x], Soil [ ], or Hydrology [ ] significantly disturbed?**

**Are Vegetation [ ] , Soil [ ] , or Hydrology [ ] naturally problematic?**

---

### ADDITIONAL VEGETATION - Use scientific names of plants

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
<th>General location within wetland</th>
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</thead>
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**Total Cover =**

<table>
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<tr>
<th>Sapling/Shrub Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
<th>General location within wetland</th>
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**Total Cover =**

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<tr>
<th>Herb Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
<th>General location within wetland</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <em>Typha angustifolia</em></td>
<td>X</td>
<td>OBL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. <em>Persicaria arundinacea</em></td>
<td>X</td>
<td>PAEW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. <em>Echinolobus crassifolius</em></td>
<td></td>
<td>PAFW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. <em>Browallia speciosa</em></td>
<td></td>
<td>PAEW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. <em>Symphonia subsiliquosa</em></td>
<td></td>
<td>OBL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. <em>Hydrocotyle siliquosa</em></td>
<td></td>
<td>OBL</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wood Vine Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
<th>General location within wetland</th>
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</thead>
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</tbody>
</table>

**Total Cover =**

**Other Notes:***

- Detra between gravel access road and rail embankment on west
- Castalia and poisonweed documented
- Standing water
- Geomorphology poor
- Algal mats

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

*Depression*

---

**Pics 2:30**
### WETLAND DETERMINATION SUPPLEMENTAL FORM

**Project/Site:** Chicago O'Hare International Airport (ORD)  
**City/County:** DuPage/Cook  
**Sampling Date:** 01/25/19  
**Applicant/Owner:** City of Chicago  
**State:** Illinois  
**Wetland #:** SE19-143  
**Investigator(s):** Bratina Hartelli, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.  
**Section, Township, Range:**  
**NWI classification:** PEM  

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

Are Vegetation [X], Soil [X], or Hydrology [ ] significantly disturbed? *Swale construction*

### ADDITIONAL VEGETATION - Use scientific names of plants

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>General location within wetland</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td><strong>East side N. Manheim</strong></td>
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<td>2.</td>
<td></td>
<td></td>
<td></td>
<td><strong>Env Name: Rm from Balmorel Ave</strong></td>
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<tr>
<td>3.</td>
<td></td>
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<td></td>
<td><strong>East side of guard lot</strong></td>
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</table>

**Sapling/Shrub Stratum**

| 1. |                  | = Total Cover |
| 2. |                  |               |
| 3. |                  |               |
| 4. |                  |               |
| 5. |                  |               |

**Herb Stratum**

| 1. Physicibus australis | FACW |
| 2. Lythrum salicaria    | OBL  |
| 3.                      |      |
| 4.                      |      |
| 5.                      |      |
| 6.                      |      |
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| 10.                     |      |
| 11.                     |      |
| 12.                     |      |

**Wood Vine Stratum**

| 1. |                  | = Total Cover |
| 2. |                  |               |

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

- Standing water
- Degradational area
- No culverts
- Phrag dominating

*Key: 4:50 PM*
**WETLAND DETERMINATION SUPPLEMENTAL FORM**

### General Information
- **Project/Site:** Chicago O'Hare International Airport (ORD)
- **City/County:** DuPage/Cook
- **Sampling Date:** 9/26/19
- **Applicant/Owner:** City of Chicago
- **State:** Illinois
- **Investigator(s):** Braung Hartzel, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.
- **Section, Township, Range:**
- **NWI classification:** PEM

### Environmental Conditions
- Are climatic hydrologic conditions on the site typical for this time of year? Yes [ ] No [ ] (If no, explain in Remarks.)
- Are Vegetation [X], Soil [X], or Hydrology [ ] significantly disturbed?
- Are Vegetation [ ], Soil [ ], or Hydrology [ ] naturally problematic?

### Additional Vegetation

<table>
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<tr>
<th>Tree Stratum</th>
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<th>Herb Stratum</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
<th>General location within wetland</th>
<th>Other Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <em>Chrysotis australis</em></td>
<td>FaCw</td>
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<tr>
<td>2. <em>Typha angustifolia</em></td>
<td>OBC</td>
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<tr>
<td>3. <em>Phragmites australis</em></td>
<td>OBC</td>
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<td>4. <em>Eriophorum obtusum</em></td>
<td>OBC</td>
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<tr>
<td>5. <em>Eriophorum palustre</em></td>
<td>OBC</td>
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<table>
<thead>
<tr>
<th>Wood Vine Stratum</th>
<th>Absolute % Cover</th>
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<th>Indicator Status</th>
<th>General location within wetland</th>
<th>Other Notes</th>
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<tbody>
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### Remarks
- *Depression*
- *Haynes, J.D. 2007, near TNPLot*
- *Shallow depressions, No advents, 1200 beyond fence; Geonosphaera, Flee.*
- *Receives runoff from gravel area surrounding, Was Mal's Pitch in 875. Pics 2: 10-10.15 am*
# WETLAND DETERMINATION SUPPLEMENTAL FORM

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Absolute Cover %</th>
<th>Dominant Species?</th>
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<th>General Location within Wetland</th>
<th>Other Notes</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
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<td></td>
<td>- Geomorphic Pattern - Floodplain - Algal mats - Cracked Soils - Deleterious Matrix</td>
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</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td>= Total Cover</td>
<td></td>
<td></td>
<td>Roadside ditch along N. Manheim (East side) South of Balversal</td>
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<tr>
<td>Herb Stratum</td>
<td>= Total Cover</td>
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<td></td>
<td>Pics 12:30 - 4pm</td>
<td></td>
</tr>
<tr>
<td>1. Solidago virescens</td>
<td>x</td>
<td>FACW</td>
<td></td>
<td></td>
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<tr>
<td>2. Schoenoplectus magellanicus</td>
<td></td>
<td>DGL</td>
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<tr>
<td>3. Scirpus tabernaemontani</td>
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<td>OBL</td>
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<tr>
<td>4. Phragmites australis</td>
<td></td>
<td>FACW</td>
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<tr>
<td>5. Phalaris canariensis</td>
<td></td>
<td>FACW</td>
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<td>6. Bolboschoenus floridensis</td>
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<td>OBL</td>
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<tr>
<td>7. Cyperus esculentus</td>
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<tr>
<td>Wood Vine Stratum</td>
<td>= Total Cover</td>
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<td>Pics 12:30 - 4pm</td>
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Remarks: (Include photo numbers here or on a separate sheet.)

Depressin
## WETLAND DETERMINATION SUPPLEMENTAL FORM

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

### City/County:
DuPage/Cook

### Applicant/Owner:
City of Chicago

### State:
Illinois

### Sampling Date:
8/25/19

### Wetland #: SW19-146

### Investigator(s):
Brauna Hartzelle, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.

### NWI classification:
PEM

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

Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed?

### ADDITIONAL VEGETATION - Use scientific names of plants

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Absolute %Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
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<tbody>
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</table>

\[ \text{Sapling/Shrub Stratum} \]

1. [ ]
2. [ ]
3. [ ]
4. [ ]
5. [ ]

\[ \text{Herb Stratum} \]

1. Phragmites ☒
2. Lythrum Salicaria ☒
3. Juncus articulatus ☒
4. Phragmites ☒
5. [ ]
6. [ ]
7. [ ]
8. [ ]
9. [ ]
10. [ ]
11. [ ]
12. [ ]

\[ \text{Wood Vine Stratum} \]

1. [ ]
2. [ ]

\[ \text{Remarks: (Include photo numbers here or on a separate sheet.)} \]

General location within wetland:
- South of Taft Ave.
- Irving Park Road

Other Notes:
- Standing water
- At base of RW field
- Large culvert under access road to NAV equipment
- Tunnel under RW to NAV equipment
### WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD)  
Applicant/Owner: City of Chicago  
Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc.  

**APPENDIX L**

#### ADDITIONAL VEGETATION - Use scientific names of plants

<table>
<thead>
<tr>
<th>Tree Stratum</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1. <em>Silva maple</em></td>
<td></td>
<td></td>
<td>P9w</td>
<td>Old wetland NE65</td>
</tr>
<tr>
<td>2. <em>Pop. deltoides</em></td>
<td></td>
<td></td>
<td>FAC</td>
<td>Essentially split by retaining wall</td>
</tr>
<tr>
<td>3. <em>Truximus penn</em></td>
<td></td>
<td></td>
<td>P9w</td>
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<thead>
<tr>
<th>Sapling/Shrub Stratum</th>
<th></th>
<th>Total Cover</th>
<th>Other Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <em>Phamurus carbonica</em></td>
<td>FAC</td>
<td></td>
<td>- against steel retaining wall for real estate property</td>
</tr>
<tr>
<td>2. <em>Salix interior</em> (?)</td>
<td></td>
<td></td>
<td>- standing water</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td>- piles of gravel and soil at toe mixed</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td>- Geomorphic pond</td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td>- FAC neutral</td>
</tr>
<tr>
<td>6. <em>Juniper decem</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>Total Cover</th>
<th>Other Notes</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Wood Vine Stratum</th>
<th>Total Cover</th>
<th>Other Notes</th>
</tr>
</thead>
</table>

Remarks: (Include photo numbers here or on a separate sheet.)
Appendix J. Stream Characterization and Ditch Data Forms
### Stream Characterization

**Date:** 8/19/2019  **Time:** 11:00 AM  **Site:** ORD  **County:** DuPage  **Investigators:** CBM  **Stream Name:** Bensenville Ditch - section 1

<table>
<thead>
<tr>
<th>Field ID:</th>
<th>Stream/Ditch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weather in the past 24 hours:</td>
<td>Storm (heavy rain) Overcast Rain (steady rain) X Clear/Sunny Showers (intermittent rain)</td>
</tr>
<tr>
<td>1. Approximate depth of water in stream:</td>
<td>N/A 6 inches</td>
</tr>
<tr>
<td>2. Plant Species Adjacent to stream (scientific name):</td>
<td>Salix interior, Rhamnus cathartica, Alnus serrulata</td>
</tr>
<tr>
<td>3. Facing upstream, does this stream have tree cover for 50 feet on the:</td>
<td>left side no right side no</td>
</tr>
<tr>
<td>4. Stream velocity:</td>
<td>N/A</td>
</tr>
<tr>
<td>5. Nature of the particles in the stream bottom:</td>
<td>N/A None Little Some Most</td>
</tr>
<tr>
<td>6. Presence of naturally occurring organic material in stream:</td>
<td>Unknown None Occasional Plentiful</td>
</tr>
<tr>
<td>7. Presence of logs or large woody debris in stream:</td>
<td>X None Occasional Plentiful</td>
</tr>
<tr>
<td>8. Facing upstream, does this stream have shrub cover for 50 feet on the:</td>
<td>left side yes right side yes</td>
</tr>
<tr>
<td>9. Water appearance:</td>
<td>X Clear/Sunny 4. Stream habitats present: X Pool(s) Run(s) X Bedrock</td>
</tr>
<tr>
<td>10. Water odor:</td>
<td>Claro</td>
</tr>
<tr>
<td>11. Presence of riprap or large woody debris in stream:</td>
<td>X None Occasional Plentiful</td>
</tr>
<tr>
<td>12. Pick the category that best describes the extent to which vegetation shades the stream:</td>
<td>X 0% 50% 100%</td>
</tr>
<tr>
<td>13. Pick the description that best fits the stream bank and the channel (facing upstream):</td>
<td>X Steeply sloping (&gt;30°) X Gradual/No slope (&lt;30°)</td>
</tr>
<tr>
<td>14. Describe the streamside cover: Check &quot;P&quot; if present, &quot;C&quot; if common</td>
<td>Left Right</td>
</tr>
<tr>
<td>a) Along the water's edge and stream bank only (facing upstream):</td>
<td>P C P C P C</td>
</tr>
<tr>
<td>Trees</td>
<td>Bushes, Shrubs</td>
</tr>
<tr>
<td>X X</td>
<td>X X</td>
</tr>
<tr>
<td>Boulders/Rocks/Rip Rap</td>
<td>Gravel/Sand</td>
</tr>
<tr>
<td>Pavement, Structures, Gabions</td>
<td></td>
</tr>
<tr>
<td>b) From the top of the streambank out to 50 feet:</td>
<td>Left Right</td>
</tr>
<tr>
<td>X X</td>
<td>P C P C</td>
</tr>
<tr>
<td>Trees</td>
<td>Bushes, Shrubs</td>
</tr>
<tr>
<td>X X</td>
<td>X X</td>
</tr>
<tr>
<td>Lawn, maintained landscape</td>
<td>Boulders/Rocks</td>
</tr>
<tr>
<td>Bare Soil</td>
<td>Pavement, Structures</td>
</tr>
<tr>
<td>15. In the vicinity of the stream, Check &quot;P&quot; if present, &quot;C&quot; if common:</td>
<td>Left Right</td>
</tr>
<tr>
<td>Natural Streamside plant cover degraded</td>
<td>Banks collapsed/eroded</td>
</tr>
<tr>
<td>Garbage/junk adjacent to the stream</td>
<td>Foam or sheen on bank</td>
</tr>
<tr>
<td>Mud, silt, or sand in or entering the stream</td>
<td>Garbage/junk in the stream</td>
</tr>
<tr>
<td>Yard waste on bank (clippings, leaves, etc.)</td>
<td>Livestock in or with unrestricted access</td>
</tr>
<tr>
<td>Actively discharging pipes</td>
<td>Other pipes</td>
</tr>
<tr>
<td>Ditches entering stream</td>
<td></td>
</tr>
<tr>
<td>16. Ordinary High Water Mark Determination</td>
<td>Check &quot;P&quot; if observed; Check &quot;U&quot; if used to determine OHWM</td>
</tr>
<tr>
<td>P</td>
<td>U</td>
</tr>
<tr>
<td>Natural line impressed on the bank</td>
<td>Shelving</td>
</tr>
<tr>
<td>Changes in the character of soil</td>
<td>Destruction of terrestrial vegetation</td>
</tr>
<tr>
<td>Presence of litter and debris</td>
<td>Wracking</td>
</tr>
<tr>
<td>Vegetation matted down; bent, or absent</td>
<td>Sediment sorting</td>
</tr>
<tr>
<td>Leaf litter disturbed or washed away</td>
<td>Scour</td>
</tr>
<tr>
<td></td>
<td>Deposition</td>
</tr>
<tr>
<td></td>
<td>Multiple observed flow events</td>
</tr>
<tr>
<td></td>
<td>Bed and banks</td>
</tr>
<tr>
<td></td>
<td>Water staining</td>
</tr>
<tr>
<td></td>
<td>Change in plant community</td>
</tr>
<tr>
<td>17. Waters Type</td>
<td>DELINEATE RPWWN</td>
</tr>
<tr>
<td>TNW</td>
<td>NRPWW</td>
</tr>
<tr>
<td>TNWW</td>
<td>ISOLATE</td>
</tr>
<tr>
<td>RP</td>
<td>UPLAND</td>
</tr>
<tr>
<td>RPWWD</td>
<td>TNRPWP</td>
</tr>
<tr>
<td>18. Observed Fauna (make note of wildlife deterrents such as bird wires)</td>
<td>Invertebrates</td>
</tr>
<tr>
<td>X</td>
<td>Great blue heron, barn swallow, redwing blackbird</td>
</tr>
<tr>
<td>X</td>
<td>Birds</td>
</tr>
<tr>
<td>X</td>
<td>Mammals</td>
</tr>
<tr>
<td>X</td>
<td>Reptile/Amphians</td>
</tr>
<tr>
<td>X</td>
<td>Fish</td>
</tr>
<tr>
<td>19. Additional Comments</td>
<td>Areas of riprap had more flow. Flow is southward; 2 roadside ditches enter on north side of property. Several enter stream from road on west and construction on east side.</td>
</tr>
</tbody>
</table>

Datasheet entered by: ORD WOUS Delineation 8/19/2019 11:00 AM Last Revised: 09/25
<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Stream Name: Bensenville Ditch - Section 2</th>
<th>Site: ORD</th>
<th>County: Cook</th>
<th>Investigators: CBM, BJH</th>
</tr>
</thead>
</table>

**Stream Characterization**

- **Date:** 8/30/2019
- **Time:** 8:05am
- **Site:** ORD
- **County:** Cook
- **Investigators:** CBM, BJH

**Weather in the past 24 hours:**
- Storm (heavy rain) Overcast
- Rain (steady rain) Clear/Sunny
- Showers (intermittent rain) N/A

**Stream/Ditch**

- **Stream Name:** Bensenville Ditch - Section 2

**Field ID:**

- **Site:** ORD
- **County:** Cook

**Stream Characterization**

1. **Approximate depth of water in stream:**
   - N/A
   - 4-5 ft

2. **Approximate width of water flow:**
   - N/A
   - 35 ft

3. **Approach width of stream:**
   - N/A
   - 75 ft

4. **Approach height of banks (channel depth):**
   - N/A
   - 15 ft
   - 20 ft

5. **Presence of naturally occurring organic material in stream:**
   - None
   - Little
   - Some
   - Most

6. **Presence of logs or large woody debris in stream:**
   - N/A
   - Occasional
   - Plentiful

7. **Presence of naturally occurring organic material in stream:**
   - Unknown
   - 0%
   - 50%
   - 100%

8. **Facing upstream, does this stream have tree cover for 50 feet on the:**
   - Left side
   - Right side

9. **Facing upstream, does this stream have shrub cover for 50 feet on the:**
   - Left side
   - Right side

10. **Natural Streamside plant cover degraded:**

11. **Presence of logs or large woody debris in stream:**

12. **Presence of logs or large woody debris in stream:**

13. **Presence of logs or large woody debris in stream:**

14. **Describe the streamside cover.**

15. **In the vicinity of the stream:**

16. **Ordinary High Water Mark Determination**

17. **Waters Type**

18. **Observed Fauna**

19. **Additional Comments**

**Datasheet entered by:** Last Revised: 09/25
### Stream Characterization

**Date:** 9/19/2019  
**Time:** 2:40pm  
**Site:** ORD  
**County:** Cook

#### Field ID: Stream/Ditch

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Storm (heavy rain)</th>
<th>Overcast</th>
<th>Rain (steady rain)</th>
<th>Clear/Sunny</th>
<th>Showers (intermittent rain)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow regime:</td>
<td>EPHEMERAL</td>
<td>PERENNIAL</td>
<td>INTERMITTENT</td>
<td>PERENNIAL</td>
<td></td>
</tr>
<tr>
<td>Stream habitats:</td>
<td>Pool(s)</td>
<td>Run(s)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Velocity:</td>
<td>Fast</td>
<td>Moderate</td>
<td>Slow</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td>Milky</td>
<td>Chlorine</td>
<td>Sewage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor:</td>
<td>Fishy</td>
<td>Rotten</td>
<td>Eggs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flowing water:</td>
<td>Clear</td>
<td>Sand</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Quality:</td>
<td>Turbid</td>
<td>Organic</td>
<td>Oily sheen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stream Velocity:</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nature of the particles:</td>
<td>Silt/mud</td>
<td>None</td>
<td>Little</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presence of naturally occurring organic material:</td>
<td>Unknown</td>
<td>Occasional</td>
<td>X Plentiful</td>
<td>25%</td>
<td>50%</td>
</tr>
</tbody>
</table>

#### Stream Name: Bensenville Ditch - Section 3

**Investigators:** CBM, BJH

**Streambank on the left side:**
- Trees: Rhamnus cathartica, Salix interior
- Understory: Typha angustifolia, Lythrum salicaria
- Solidago sempervirens

**Streambank on the right side:**
- Trees: Ulmus pumila
- Understory: Solidago sempervirens

**Facing upstream, does this stream have:**
- Tree cover for 50 feet on the left side: yes, right side: yes
- Shrub cover for 50 feet on the left side: no, right side: no

### Ordinary High Water Mark Determination

**Check "P" if observed; Check "U" if used to determine OHWM**

<table>
<thead>
<tr>
<th>Natural line impressed on the bank</th>
<th>Shelving</th>
<th>Changes in the character of soil</th>
<th>Destruction of terrestrial vegetation</th>
<th>Presence of litter and debris</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sediment sorting</td>
<td></td>
<td>Leaf litter disturbed or washed away</td>
<td>Scour</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td></td>
<td>Deposition</td>
<td>Multiple observed flow events</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td></td>
<td>Bed and banks</td>
<td>Water staining</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td></td>
<td>Change in plant community</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**Waters Type:**
- DELINEATE
- RPWWN
- TNW
- NRPWW
- TNWW
- ISOLATE
- X
- RPW
- UPLAND
- RPWWD
- TNWRPW

**Observed Fauna:**
- Invertebrates: grasshoppers, butterflies
- Birds: Mammals: Reptile/Amphians: Fish:

**Additional Comments:** double box culverts from under Irving Park Rd; flows into Silver Creek reservoir; very short

**Datasheet entered by:** Last Revised: 09/25
### Weather in the past 24 hours:

<table>
<thead>
<tr>
<th>Storm (heavy rain)</th>
<th>Rain (steady rain)</th>
<th>Showers (intermittent rain)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overcast</td>
<td>Clear/Sunny</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Stream Characterization

<table>
<thead>
<tr>
<th>Field ID: Stream Pitch</th>
<th>Stream Name: Crystal Creek Section 1</th>
<th>County: Cook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date: 8/16/2019</td>
<td>Time: 11:45 AM</td>
<td>Site: ORD</td>
</tr>
</tbody>
</table>

#### Stream Flow Regime:

- **EPHEMERAL**
- **PERENNIAL**

#### Storm Habitats Present:

- Pool(s) X
- Run(s) N/A

#### Stream Velocity:

- Fast
- Moderate X
- Slow N/A

#### Nature of the particles in the stream bottom:

- Sand X
- Mud N/A

#### Approximate depth of water in stream:

- Unknown N/A

#### Streambank:

- Left: 2 ft
- Right: 2 ft

#### Presence of naturally occurring organic material in stream:

- Algae X
- Unknown N/A

#### Presence of logs or large woody debris in stream:

- None X
- Occasional
- Plentiful

#### Ordinary High Water Mark Determination

- Natural line impressed on bank X
- Shelving
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- Change in plant community

#### Waters Type

- DELINEATE
- RPWNN
- X
- TNW
- TNWW
- NRPWW
- ISOLATE
- RPW
- UPLAND
- RPWWD
- NRPWW
- TNW

#### Observed Fauna

- List
  - Invertebrates
  - Birds
  - Mammals
  - Reptile/Amphibians
  - Fish

#### Additional Comments

- Water very stagnant, algae growth
- Double 60 inch culvert flows into stream

### Datasheet entered by:

Last Revised: 09/25
## Stream Characterization

**Field ID** Stream ID

**Date:** 7/16/2019  **Time:**  **Site:** Crystal Creek, Section 2  **County:** Cook

**Stream Name:**

**Investigators:** BJH, KAS

### Weather in the past 24 hours:
- Storm (heavy rain)  Overcast
- Rain (steady rain)  Clear/Sunny
- Showers (intermittent rain)  

### Circle flow regime:
- **EPHEMERAL**  PERENNIAL  INTERMITTENT

### Water Appearance:
- Storm (heavy rain)  Overcast INTERMITTENT clear sewage
- Rain (steady rain)  X Clear/Sunny 4. Stream habitats present: milky chlorine
- Showers (intermittent rain)  X Pool(s) Run(s) foamy fishy

### Water Odor:
- Storm (heavy rain)  Overcast INTERMITTENT clear sewage
- Rain (steady rain)  X Clear/Sunny 4. Stream habitats present: milky chlorine
- Showers (intermittent rain)  X Pool(s) Run(s) foamy fishy

### Stream Velocity:
- Light  Moderate  Slow  N/A  Dark Brown  Organic  Oily Sheen  None

### Presence of logs or large woody debris in stream:
- None  Occasional  Plentiful

### Presence of naturally occurring organic material in stream:
- Unknown 0% 50% 100%  None Occasional Plentiful

### Plant Species Adjacent to stream (scientific name):
- Salix interior, Cornus sericea,
- Typha angustifolia, Lythrum salicaria,
- Sambucus canadensis, Vitis riparia

### Facing upstream, does this stream have tree cover for 50 feet on the:
- Left side  No  right side  No

### What is the % cover of trees per side of the stream?:
- left side  right side

### Facing upstream, does this stream have shrub cover for 50 feet on the:
- left side  No  right side  No

### What is the % cover of shrubs per side of the stream?:
- left side  right side

### Ordinary High Water Mark Determination

**Check "P" if observed; Check "U" if used to determine OHWM**

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P</strong></td>
<td><strong>C</strong></td>
</tr>
<tr>
<td>Trees</td>
<td>Bushes, Shrubs</td>
</tr>
<tr>
<td>X X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Pavement, Structures, Gabions</td>
<td></td>
</tr>
</tbody>
</table>

### Additional Comments

- At west end fence crosses stream and it continues to airfield; exits on east end via 18ft x 6ft box culvert under road; armored with cobbles
- 2 small culverts enter at western end

### Datasheet entered by:
- KAS  Last Revised: 08/19
Stream Characterization

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Stream/Ditch</th>
<th>Stream Name: Crystal Creek, Section 3</th>
<th>Site: ORD</th>
<th>County: Cook</th>
<th>Date: 7/19/2019</th>
<th>Time:</th>
<th>Investigators: BJH, KAS</th>
</tr>
</thead>
</table>

**Weather in the past 24 hours:**
- X Storm (heavy rain)
- X Rain (steady rain)
- X Showers (intermittent rain)

<table>
<thead>
<tr>
<th>1. Approximate depth of water in stream:</th>
<th>X N/A up to 6&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>b) Approximate width of water flow:</td>
<td>18 ft</td>
</tr>
<tr>
<td>c) Approximate width of stream: (from top of bank to top of bank)</td>
<td>60 ft</td>
</tr>
<tr>
<td>d) Approximate height of banks (channel depth): left</td>
<td>20 ft</td>
</tr>
<tr>
<td></td>
<td>right 20 ft</td>
</tr>
</tbody>
</table>

| e) Approximate depth of pool(s): | X N/A |

<table>
<thead>
<tr>
<th>2. Plant Species Adjacent to stream (scientific name):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morus sp.</td>
</tr>
</tbody>
</table>

**Facing upstream, does this stream have tree cover for 50 feet on the:**
- X left side | No |
- X right side | No |

<table>
<thead>
<tr>
<th>What is the % cover of trees per side of the stream?</th>
</tr>
</thead>
<tbody>
<tr>
<td>x left side</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Stream flow regime:</th>
<th>EPHEMERAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Stream habitats present:</td>
<td></td>
</tr>
<tr>
<td>- Pool(s)</td>
<td>Run(s)</td>
</tr>
<tr>
<td>- Riffles(s)</td>
<td>X N/A</td>
</tr>
<tr>
<td>5. Stream Velocity: last</td>
<td></td>
</tr>
<tr>
<td>- moderate</td>
<td>slow X N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. Nature of the particles in the stream bottom:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Silt/clay/mud</td>
</tr>
<tr>
<td>X Sand</td>
</tr>
<tr>
<td>X Gravel</td>
</tr>
<tr>
<td>X Cobble (2 - 10&quot; diam.)</td>
</tr>
<tr>
<td>X Bedrock</td>
</tr>
<tr>
<td>7. Presence of naturally occurring organic material in stream:</td>
</tr>
<tr>
<td>X None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8. Facing upstream, does this stream have shrub cover for 50 feet on the:</th>
</tr>
</thead>
<tbody>
<tr>
<td>left side</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>What is the % cover of shrubs per side of the stream?</th>
</tr>
</thead>
<tbody>
<tr>
<td>x left side</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10. Water Odor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Milky</td>
</tr>
<tr>
<td>X Chlorine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>11. Presence of logs or large woody debris in stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12. Pick the category that best describes the extent to which vegetation shades the stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X 0%</td>
</tr>
<tr>
<td>X 25%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13. Pick the description that best fits the stream bank and the channel (facing upstream):</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Stream bank: Vertical/undercut Steeply sloping (&gt;30°) X</td>
</tr>
<tr>
<td>b) Shape of the channel: Narrow, Deep Wide, Deep X Gradual/No slope (&lt;30°) X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14. Describe the streamside cover. Check &quot;P&quot; if present, &quot;C&quot; if common:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Along the water's edge and stream bank only (facing upstream):</td>
</tr>
<tr>
<td>X Trees</td>
</tr>
<tr>
<td>X Bushes, Shrubs</td>
</tr>
<tr>
<td>X Grasses, forbs</td>
</tr>
<tr>
<td>X Lawn, maintained landscape</td>
</tr>
<tr>
<td>X Boulders/Rocks/Rip Rap</td>
</tr>
<tr>
<td>X Gravel/Sand</td>
</tr>
<tr>
<td>X Bare Soil</td>
</tr>
<tr>
<td>X Pavement, Structures, Gabions</td>
</tr>
<tr>
<td>b) From the top of the streambank out to 50 feet:</td>
</tr>
<tr>
<td>X Trees</td>
</tr>
<tr>
<td>X Bushes, Shrubs</td>
</tr>
<tr>
<td>X Grasses, forbs</td>
</tr>
<tr>
<td>X Lawn, maintained landscape</td>
</tr>
<tr>
<td>X Boulders/Rocks</td>
</tr>
<tr>
<td>X Gravel/Sand</td>
</tr>
<tr>
<td>X Bare Soil</td>
</tr>
<tr>
<td>X Pavement, Structures</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15. In the vicinity of the stream, check &quot;P&quot; if present, &quot;C&quot; if common:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Natural Streamside plant cover degraded</td>
</tr>
<tr>
<td>X Banks collapsed/eroded</td>
</tr>
<tr>
<td>X Garbage/junk adjacent to the stream</td>
</tr>
<tr>
<td>X Foam or sheen on bank</td>
</tr>
<tr>
<td>X Mud, silt, or sand in or entering the stream</td>
</tr>
<tr>
<td>X Garbage/junk in the stream</td>
</tr>
<tr>
<td>X Yard waste on bank (clippings, leaves, etc.)</td>
</tr>
<tr>
<td>X Livestock in or with unrestricted access</td>
</tr>
<tr>
<td>X Actively discharging pipes</td>
</tr>
<tr>
<td>X Other pipes</td>
</tr>
<tr>
<td>X Ditches entering stream</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16. Ordinary High Water Mark Determination:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check &quot;P&quot; if observed; Check &quot;U&quot; if used to determine OHWM</td>
</tr>
<tr>
<td>X Natural line impressed on the bank</td>
</tr>
<tr>
<td>X Shelving</td>
</tr>
<tr>
<td>X Changes in the character of soil</td>
</tr>
<tr>
<td>X Destruction of terrestrial vegetation</td>
</tr>
<tr>
<td>X Presence of litter and debris</td>
</tr>
<tr>
<td>X Wracking</td>
</tr>
<tr>
<td>X Vegetation matted down; bent, or absent</td>
</tr>
<tr>
<td>X Sediment sorting</td>
</tr>
<tr>
<td>X Leaf litter disturbed or washed away</td>
</tr>
<tr>
<td>X Scour</td>
</tr>
<tr>
<td>X Deposition</td>
</tr>
<tr>
<td>X Multiple observed flow events</td>
</tr>
<tr>
<td>X Bed and banks</td>
</tr>
<tr>
<td>X X Water staining</td>
</tr>
<tr>
<td>X X Change in plant community</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>17. Waters Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELINEATE</td>
</tr>
<tr>
<td>TNW</td>
</tr>
<tr>
<td>TNWW</td>
</tr>
<tr>
<td>RP</td>
</tr>
<tr>
<td>RPWW</td>
</tr>
<tr>
<td>UPLAND</td>
</tr>
<tr>
<td>TNWP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>18. Observed Fauna (make note of wildlife deterrents such as bird wires):</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
</tr>
<tr>
<td>Invertebrates</td>
</tr>
<tr>
<td>Birds</td>
</tr>
<tr>
<td>Mammals</td>
</tr>
<tr>
<td>Reptile/Amphians</td>
</tr>
<tr>
<td>Fish</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>19. Additional Comments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>wetland SE19-1 connected at southeast end roadway ditches flow in at east end; phragmites dominated; connected to segment 1 via box culverts; east end flows under Mannheim Rd via box culverts to segment 3</td>
</tr>
</tbody>
</table>

| Datasheet entered by: | KAS | Last Revised: 08/19 |

**Disclaimer:**
- The information provided is for educational purposes and may not be representative of the actual data collected in a real-world setting.
- The table structure and content are designed to simulate a typical stream characterization report format, with placeholders for input data.
- The text is simplified and adapted for clarity, focusing on key elements typically found in such reports.
**Stream Characterization**

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Stream ID</th>
<th>Stream Name:</th>
<th>Date:</th>
<th>Time:</th>
<th>Site:</th>
<th>County:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Crystal Creek</td>
<td>Crystal Creek Section 4</td>
<td>7/16/2019 AM</td>
<td>AM</td>
<td>ORD</td>
<td>Cook</td>
</tr>
</tbody>
</table>

**Weather in the past 24 hours:**
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain): X

**Weather in the past 24 hours:**
- 3. Circle flow regime: EPHEMERAL PERENNIAL INTERMITTENT
- 4. Stream habitats present: Pool(s) Run(s) X N/A
- 5. Stream Velocity: fast moderate X slow N/A
- 6. Nature of the particles in the stream bottom: sand gravel cobbles (2 - 10" diam.) bedrock
- 7. Presence of naturally occurring organic material in stream: X Unknown 0% 50% X 100%
- 8. Facing upstream, does this stream have tree cover for 50 feet on the: left side Y right side Y
- 9. Water Appearance: clear X milky chlorine
- 10. Water Odor: foamy fishty X turbid rotten eggs
- 11. Presence of logs or large woody debris in stream: X None Occasional Plentiful
- 12. Pick the category that best describes the extent to which vegetation shades the stream:
  - 0% 25% 50% 75% 100% X other - _____%
- 13. Pick the description that best fits the stream bank and the channel (facing upstream):
  - Left Vertical/undercut Right
  - X Steeply sloping (>30°) X
  - X Gradual/No slope (<30°)
- 14. Describe the streamside cover. Check "P" if present, "C" if common:
  - a) Along the water's edge and stream bank only (facing upstream):
    - P C
      - Trees X X
      - Bushes, Shrubs X X
      - Tall grasses, fens X X
      - Lawn, maintained landscape X X
      - Boulders/Rocks/Rip Rap X X
      - Gravel/Sand X X
      - Bare Soil X X
      - Pavement, Structures, Gabions X X
    - b) From the top of the streambank out to 50 feet:
      - P C
        - Trees X X
        - Bushes, Shrubs X X
        - Tall grasses, fens X X
        - Lawn, maintained landscape X X
        - Boulders/Rocks X X
        - Gravel/Sand X X
        - Bare Soil X X
        - Pavement, Structures X X
- 15. In the vicinity of the stream, Check "P" if present, "C" if common:
  - P C
    - Natural Streamside plant cover degraded X X
    - Banks collapsed/eroded X X
    - Garbage/junk adjacent to the stream X X
    - Foam or sheen on bank X X
    - Mud, silt, or sand in or entering the stream X X
    - Yard waste on bank (clippings, leaves, etc.) X X
    - Livestock in or with unrestricted access X X
    - Actively discharging pipes X X
    - Other pipes X X
    - Ditches entering stream X X
- 16. Ordinary High Water Mark Determination
  - Check "P" if observed; Check "U" if used to determine OHWM
  - Left X X
    - Natural line impressed on the bank X X
    - Shelving X X
    - Changes in the character of soil X X
    - Destruction of terrestrial vegetation X X
    - Presence of litter and debris X X
    - Wracking X X
    - Vegetation matted down; bent, or absent X X
    - Sediment sorting X X
    - Leaf litter disturbed or washed away X X
    - Scour X X
    - Deposition X X
    - Multiple observed flow events X X
    - Bed and banks X X
    - Water staining X X
    - Change in plant community X X
- 17. Waters Type
  - DELINEATE RPWNN
  - TNW NRPPW
  - TNWW NRPWW ISOLATE
  - RPW UPLAND RPWW
- 18. Observed Fauna (make note of wildlife deterrents such as bird wires)
  - List
    - X Invertebrates mosquitos
    - Birds X X
    - Mammals X X
    - Reptile/Amphians X X
    - Fish X X
- 19. Additional Comments
  - 2 roadside ditches drain into creek; armored entire length with cobbles; exits under I-294 via double box culver (10x8ft); filled/dominated with Typha; 2 booms span stream near east end; steel weir present & in poor condition
  - Datasheet entered by: KAS Last Revised: 08/19
### Stream Characterization

**Field ID:** Stream/Ditch  
**Stream Name:** Ditch 1  
**Investigators:** BJH, KAS, CBM  
**County:** Cook  
**Date:** 8/23/2019  
**Time:** 2:49 PM  
**Datasheet entered by:** ORD  
**Last Revised:** 09/25

#### Weather in the past 24 hours:
- Storm (heavy rain)  
- Rain (steady rain)  
- Showers (intermittent rain)  
- Overcast  
- Clear/Sunny  

#### 5. Circle flow regime:
- _Ephemeral_  
- _Perennial_  
- _Intermittent_  

#### 8. Facing upstream, does this stream have tree cover for 50 feet on the:
- left side: yes  
- right side: no  

#### 11. Presence of logs or large woody debris in stream:
- None  
- Occasional  
- Plentiful  

#### 12. Pick the category that best describes the extent to which vegetation shades the stream:
- 0%  
- 50%  
- 100%  

#### 14. Describe the streamside cover. Check "P" if present, "C" if common:
- **Left**  
  - Natural Streamside plant cover degraded  
  - Banks collapsed/eroded  
  - Garbage/junk adjacent to the stream  
  - Foam or sheen on bank  
  - Mud, silt, or sand in or entering the stream  
  - Garbage/junk in the stream  
  - Yard waste on bank (clippings, leaves, etc.)  
  - Livestock in or with unrestricted access  
  - Actively discharging pipes  
  - Other pipes  
  - Ditches entering stream  

- **Right**  
  - Natural Streamside plant cover degraded  
  - Banks collapsed/eroded  
  - Garbage/junk adjacent to the stream  
  - Foam or sheen on bank  
  - Mud, silt, or sand in or entering the stream  
  - Garbage/junk in the stream  
  - Yard waste on bank (clippings, leaves, etc.)  
  - Livestock in or with unrestricted access  
  - Actively discharging pipes  
  - Other pipes  
  - Ditches entering stream  

#### 16. Ordinary High Water Mark Determination

- **Check "P" if observed; Check "U" if used to determine OHWM**  
  - Natural line impressed on the bank  
  - Shelving  
  - Changes in the character of soil  
  - Destruction of terrestrial vegetation  
  - Presence of litter and debris  
  - Wracking  
  - Vegetation matted down; bent, or absent  
  - Sediment sorting  
  - Leaf litter disturbed or washed away  
  - Scour  
  - Deposition  
  - Multiple observed flow events  
  - Bed and banks  
  - Water staining  
  - Change in plant community  

#### 18. Observed Fauna (make note of wildlife deterrents such as bird wires):
- **List**  
  - Invertebrates  
  - Butterflies  
  - Birds  
  - Mammals  
  - Reptile Amphians  
  - Fish  

#### 19. Additional Comments:
- Large berm on left side; 30ft high  

---

**APPENDIX L**  
**L-414**  
**JUNE 2022**
## Stream Characterization

### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): X (Clear/Sunny)
- Showers (intermittent rain):

### Water Appearance:
- Storm (heavy rain): Overcast
- Rain (steady rain): X (Clear/Sunny)
- Showers (intermittent rain):

### Water Odor:
- Storm (heavy rain): Overcast
- Rain (steady rain): X (Clear/Sunny)
- Showers (intermittent rain):

### Stream Velocity:
- Fast: Moderate: Slow: N/A

### Presence of naturally occurring organic material in stream:
- None: Occasional: Plentiful

### Facing upstream, does this stream have shrub cover:
- Left side: Right side:

### Facing upstream, does this stream have tree cover:
- Left side: Right side:

### Ordinary High Water Mark Determination:
- Natural line impressed on the bank
- shelving
- Changes in the character of soil
- destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- X X Change in plant community

### Waters Type:
- DELINATE
- RPWNN
- TNW
- NRPWW
- TNWW
- ISOLATE
- RPW
- UPLAND
- RPWWD
- TNWRPW

### Observed Fauna:
- Invertebrates: insects
- Birds: mammals
- Reptile/Amphians: fish

### Additional Comments:
- Located between parking lots and related roads
Stream Characterization

Date: 8/12/2019  Time: 2:10pm  Site: ORD  County: Cook

Field ID: Stream/Ditch

Stream Name: Ditch 3

Investigators: BJH

County: Cook

Weather in the past 24 hours:
- Storm (heavy rain) X Overcast
- Rain (steady rain) Clear/Sunny
- Showers (intermittent rain)

1. a) Approximate depth of water in stream:
   - N/A

b) Approximate width of water flow:
   - 5 ft

c) Approximate width of stream:
   - 15 ft

1. d) Approximate height of banks (channel depth):
   - Left: 1-2 ft; Right: 1-2 ft

2. Plant Species Adjacent to stream (scientific name):
   - Salix interior

Understory: Phragmites australis, Persicaria sp.

3. Circle flow regime:
   - EPHEMERAL

4. Stream habitats present:
   - Pool(s) X Run(s)

5. Stream Velocity:
   - N/A

6. Nature of the particles in the stream bottom:
   - Eel/mud

7. Presence of naturally occurring organic material in stream:
   - X Unknown

8. Facing upstream, does this stream have tree cover for 50 feet on the:
   - Left side: Yes; Right side: No

   What is the % cover of trees per side of the stream?
   - Left side: 0 %; Right side: 0 %

Facing upstream, does this stream have shrub cover for 50 feet on the:
   - Left side: Yes; Right side: No

   What is the % cover of shrubs per side of the stream?
   - Left side: 0 %; Right side: 0 %

11. Presence of logs or large woody debris in stream:
   - X None; Occasional; Plentiful

12. Pick the category that best describes the extent to which vegetation shades the stream:
   - X 0%; 25%; 50%; 100%

   Other - _____%

13. Pick the description that best fits the stream bank and the channel (facing upstream):
   - X Vertical/undercut

b) Shape of the channel:
   - X Narrow, Deep

14. Describe the streamside cover. Check "P" if present, "C" if common:
   - a) Along the water's edge and stream bank only (facing upstream):
     - Trees: X P C
     - Bushes, Shrubs: X X
     - Tall grasses, forbs: X X X
     - Lawn, maintained landscape:
     - Boulders/Rocks/Rip Rap:
     - Gravel/Sand:
     - Bare Soil:
     - Pavement, Structures, Gabions:

   - b) From the top of the streambank out to 50 feet:
     - Trees: X X
     - Bushes, Shrubs: X X
     - Tall grasses, forbs:
     - Lawn, maintained landscape:
     - Boulders/Rocks:
     - Gravel/Sand:
     - Bare Soil:
     - Pavement, Structures, Gabions:

15. In the vicinity of the stream, Check "P" if present, "C" if common:
   - Natural Streamside plant cover degraded:
   - Banks collapsed/eroded:
   - Garbage/junk adjacent to the stream:
   - Foam or shear on bank:
   - Mud, silt, or sand in or entering the stream:
   - Garbage/junk in the stream:
   - Yard waste on bank (clippings, leaves, etc.):
   - Livestock in or with unrestricted access:
   - Actively discharging pipes:
   - Other pipes:
   - Ditches entering stream:

16. Ordinary High Water Mark Determination
   - Check "P" if observed; Check "U" if used to determine OHWM

   - Natural line impressed on the bank
   - X X Shelving
   - X X Changes in the character of soil
   - Destruction of terrestrial vegetation
   - X Presence of litter and debris
   - Wracking
   - Vegetation matted down; bent, or absent
   - Sediment sorting
   - Leaf litter disturbed or washed away
   - Scour
   - Deposition
   - Multiple observed flow events
   - Bed and banks
   - Water staining
   - Change in plant community

17. Waters Type
   - DELINEATE
   - TNW
   - RPW
   - RPWWD

18. Observed Fauna (make note of wildlife deterrents such as bird wires)
   - X Invertebrates: butterflies
   - Birds: rabbits
   - X Mammals: rabbits
   - X Reptile Amphibians: fish

19. Additional Comments
   - Flows east; riprap lined for most of extent; 2 culverts on either end
   - Algae present; trash/junk at west end; constructed ditch; connects to large pipe under perimeter road

Datasheet entered by: BJH  Last Revised: 09/25
| Field ID: Stream/| Stream Characterization | Date: 8/28/2019 | Time: 1:30pm | Site: ORD | County: Cook |
| Ditch | | | | | |
| Weather in the past 24 hours: | Storm (heavy rain) Overcast | | | | |
| Rain (steady rain) | x Clear/Sunny | | | | |
| Showers (intermittent rain) | | | | | |
| 1. Approximate depth of water in stream: | | 3 inches | | | |
| b) Approximate width of water flow: | | 8 ft | | | |
| c) Approximate width of stream: | | | | 8 ft | |
| (from top of bank to top of bank) | | | | | |
| d) Approximate height of banks (channel depth): | | 25 ft | left | | |
| 7. Presence of naturally occurring organic material in stream: | | Unknown | | | |
| e) Approximate depth of pool(s): | | N/A | | | |
| 8. Facing upstream, does this stream have tree cover for 50 feet on the: | | | left side | | |
| What is the % cover of trees per side of the stream? | | | | | |
| Understory: | | | | | |
| Cyperus esculentus, Scirpus fluviatilis, Echinocloa crus-galli, Persicaria lapathifolia | | | | | |
| 12. Pick the category that best describes the extent to which vegetation shades the stream: | | 0% | | | |
| 13. Pick the description that best fits the stream bank and the channel (facing upstream): | | | | | |
| a) Stream bank: | | Left | | | |
| Vertical/undercut Steeply slopes (>30°) | X | | | |
| Gradual/No slope (<30°) | X | | | |
| b) Shape of the channel: | | | Right | | |
| Narrow, Deep Wide, Deep | X | | | |
| Narrow, Shallow Wide, Shallow | | | | | |
| 14. Describe the streamside cover. Check "P" if present, "C" if common: | | | | | |
| a) Along the water's edge and stream bank only (facing upstream): | | | | | |
| Left | | | | | |
| Right | | | | | |
| P C | | | | | |
| P C | | | | | |
| X X | | | | | |
| 15. In the vicinity of the stream, Check "P" if present, "C" if common: | | | | | |
| Left | | | | | |
| Right | | | | | |
| P C | | | | | |
| P C | | | | | |
| X X | | | | | |
| 16. Ordinary High Water Mark Determination (Check "P" if observed; Check "U" if used to determine OHWM) | | | | | |
| P U | | | | | |
| Natural line impressed on the bank | | | | | |
| Shelving | | | | | |
| Changes in the character of soil | | | | | |
| Destruction of terrestrial vegetation | | | | | |
| Presence of litter and debris | | | | | |
| Wracking | | | | | |
| Vegetation matted down; bent, or absent | | | | | |
| Sediment sorting | | | | | |
| Leaf litter disturbed or washed away | | | | | |
| Scour | | | | | |
| Deposition | | | | | |
| Multiple observed flow events | | | | | |
| Bed and banks | | | | | |
| Water staining | | | | | |
| Change in plant community | | | | | |
| 17. Waters Type | | | | | |
| DELINEATE | | | | | |
| TNW | | | | | |
| TNWW | | | | | |
| RPW | | | | | |
| RPWWD | | | | | |
| 18. Observed Fauna (make note of wildlife deterrents such as bird wires) | | | | | |
| List | | | | | |
| Invertebrates | | | | | |
| Birds | | | | | |
| Mammals | | | | | |
| Reptile/Amphians | | | | | |
| Fish | | | | | |
| 19. Additional Comments | | | | | |
| 48" culvert at north and south ends | | | | | |
| Ditches entering stream | | | | | |
| Datasheet entered by: | | | | | |
| Last Revised: 09/25 | | | | | |
Stream Characterization

Date: 8/28/2019 Time: 2:00pm Site: ORD County: Cook

Field ID: Stream/Ditch

Stream Name: Ditch 6

Investigators: CBM, BJH

Stream Flow Regime: Ephemeral

Stream Habitat Present: Pool(s) Run(s)

Water Appearance: Clear

Weather in the past 24 hours: Overcast

Stream Velocity: Slow

Nature of the particles in the stream bottom: Sand

Presence of naturally occurring organic material in stream: None

Presence of logs or large woody debris in stream: None

Ordinary High Water Mark Determination:

a) Along the water's edge and stream bank only (facing upstream):

- Natural line impressed on the bank
- Changes in the character of soil
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- Change in plant community

b) From the top of the streambank out to 50 feet:

- Rural/Urban
- Rural/Woodland
- Woodland/Rural
- Woodland/Woodland
- Change in plant community

Observed Fauna:

- Invertebrates
- Birds
- Mammals
- Reptile/Amphibians
- Fish

Observed Fauna:

- Drainage ditch

Datasheet entered by: Last Revised: 09/25

Other pipes

Footnotes:

- Cook ORD WOUS Delineation
- ORD WOUS Delineation
- APPENDIX L
- JUNE 2022

Additional Notes:

- Drainage ditch
<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain)</td>
</tr>
<tr>
<td>Rain (steady rain)</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9. Water Appearance:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear</td>
</tr>
<tr>
<td>Milky</td>
</tr>
<tr>
<td>Foamy</td>
</tr>
<tr>
<td>Turbid</td>
</tr>
<tr>
<td>Light brown</td>
</tr>
<tr>
<td>Dark brown</td>
</tr>
<tr>
<td>Oily sheen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. a) Approximate depth of water in stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4 inches</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>11. Presence of logs or large woody debris in stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12. Pick the category that best describes the extent to which vegetation shades the stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X 0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13. Pick the description that best fits the stream bank and the channel (facing upstream):</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Stream bank:</td>
</tr>
<tr>
<td>Right</td>
</tr>
<tr>
<td>Vertical/undercut</td>
</tr>
<tr>
<td>Steeply sloping (&gt;30°)</td>
</tr>
<tr>
<td>Gradual/No slope (&lt;30°)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14. Describe the streamside cover. Check &quot;P&quot; if present, &quot;C&quot; if common:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Along the water’s edge and stream bank only (facing upstream):</td>
</tr>
<tr>
<td>Left</td>
</tr>
<tr>
<td>Trees</td>
</tr>
<tr>
<td>Bushes, Shrubs</td>
</tr>
<tr>
<td>Tall grasses, forbs</td>
</tr>
<tr>
<td>Lawn, maintained landscape</td>
</tr>
<tr>
<td>Boulders/Rocks/Rip Rap</td>
</tr>
<tr>
<td>Gravel/Sand</td>
</tr>
<tr>
<td>Bare Soil</td>
</tr>
<tr>
<td>Pavement, Structures, Gabions</td>
</tr>
<tr>
<td>Right</td>
</tr>
<tr>
<td>Trees</td>
</tr>
<tr>
<td>Bushes, Shrubs</td>
</tr>
<tr>
<td>Tall grasses, forbs</td>
</tr>
<tr>
<td>Lawn, maintained landscape</td>
</tr>
<tr>
<td>Boulders/Rocks/Rip Rap</td>
</tr>
<tr>
<td>Gravel/Sand</td>
</tr>
<tr>
<td>Bare Soil</td>
</tr>
<tr>
<td>Pavement, Structures, Gabions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15. In the vicinity of the stream, Check &quot;P&quot; if present, &quot;C&quot; if common:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Natural Streamside plant cover degraded</td>
</tr>
<tr>
<td>b) Banks collapsed/eroded</td>
</tr>
<tr>
<td>c) Garbage/junk adjacent to the stream</td>
</tr>
<tr>
<td>d) Foam or sheen on bank</td>
</tr>
<tr>
<td>e) Mud, silt, or sand in or entering the stream</td>
</tr>
<tr>
<td>f) Garbage/junk in the stream</td>
</tr>
<tr>
<td>g) Yard waste on bank (clippings, leaves, etc.)</td>
</tr>
<tr>
<td>h) Livestock in or with unrestricted access</td>
</tr>
<tr>
<td>i) Actively discharging pipes</td>
</tr>
<tr>
<td>j) Other pipes</td>
</tr>
<tr>
<td>k) Ditches entering stream</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16. Ordinary High Water Mark Determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check &quot;P&quot; if observed; Check &quot;U&quot; if used to determine OHWM</td>
</tr>
<tr>
<td>Natural line impressed on the bank</td>
</tr>
<tr>
<td>Shelving</td>
</tr>
<tr>
<td>Changes in the character of soil</td>
</tr>
<tr>
<td>Destruction of terrestrial vegetation</td>
</tr>
<tr>
<td>Presence of litter and debris</td>
</tr>
<tr>
<td>Wracking</td>
</tr>
<tr>
<td>Vegetation matted down; bent, or absent</td>
</tr>
<tr>
<td>Sediment sorting</td>
</tr>
<tr>
<td>Leaf litter disturbed or washed away</td>
</tr>
<tr>
<td>Scour</td>
</tr>
<tr>
<td>Deposition</td>
</tr>
<tr>
<td>Multiple observed flow events</td>
</tr>
<tr>
<td>Bed and banks</td>
</tr>
<tr>
<td>Water staining</td>
</tr>
<tr>
<td>Change in plant community</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>17. Waters Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELINEATE</td>
</tr>
<tr>
<td>TNW</td>
</tr>
<tr>
<td>RPW</td>
</tr>
<tr>
<td>RPWW</td>
</tr>
<tr>
<td>UPLAND</td>
</tr>
<tr>
<td>TNWRP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>18. Observed Fauna (make note of wildlife deterrents such as bird wires)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invertebrates</td>
</tr>
<tr>
<td>Bees</td>
</tr>
<tr>
<td>Birds</td>
</tr>
<tr>
<td>Mammals</td>
</tr>
<tr>
<td>Reptile/Amphians</td>
</tr>
<tr>
<td>Fish</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>19. Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flows south but no outlet</td>
</tr>
</tbody>
</table>

| Datasheet entered by: Last Revised: 09/25 |
**Stream Characterization**

**Date:** 9/26/2019  
**Time:** 5:00pm  
**Site:** ORD  
**County:** DuPage  
**Field ID:** Stream/Ditch

### Weather in the past 24 hours:
- Storm (heavy rain)
- Rain (steady rain)
- Showers (intermittent rain)
- **Overcast**

### Stream ID:
- **Stream Name:** Ditch 8
- **County:** DuPage

### Circle flow regime:
- **EPHEMERAL**

### Stream Velocity:
- Last
- Moderate
- Slow

### Approximate depth of water in stream:
- 0-6 inches

### Approximate width of water flow:
- **3-8 ft**

### Approximate width of stream (from top of bank to top of bank):
- 6-20 ft

### Approximate height of banks (channel depth):
- **10 ft**

### Presence of naturally occurring organic material in stream:
- Unknown

### Facing upstream, does this stream have tree cover for 50 feet on the:
- Left side: No
- Right side: Yes

### Facing upstream, does this stream have shrub cover for 50 feet on the:
- Left side: No
- Right side: Yes

### Ordinary High Water Mark Determination

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P</strong></td>
<td><strong>C</strong></td>
</tr>
<tr>
<td>Trees</td>
<td></td>
</tr>
</tbody>
</table>
Bushed/Shrubs | X X |
| Tall grasses, forbs | X X |
| Lawn, maintained landscape | X |
| Boulders/Rocks/Rip Rap | X |
| Gravel/Sand | X |
| Bare Soil |  
Pavement, Structures, Gabions |  |
|  |  |

### Waters Type

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P</strong></td>
<td><strong>U</strong></td>
</tr>
<tr>
<td>Natural line impressed on the bank</td>
<td></td>
</tr>
</tbody>
</table>
Shelving |  
Changes in the character of soil |  
Destruction of terrestrial vegetation |  
Presence of litter and debris |  
Wracking |  
Vegetation matted down; bent, or absent |  
Sediment sorting |  
Leaf litter disturbed or washed away |  
Scour |  
Deposition |  
Multiple observed flow events |  
Bed and banks |  
Water staining |  
Change in plant community |  |

### Observed Fauna

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>List</strong></td>
<td></td>
</tr>
</tbody>
</table>
Invertebrates |  
Birds |  
Mammals |  
Reptile/Amphians |  
Fish |  |

### Additional Comments

Some areas mown on roadside; large patches of Phragmites with standing water in some places.

**Datasheet entered by:**  
**Last Revised:** 09/25
Stream Characterization

Date: 8/28/2019  Time: 11:55 AM  Site: ORD  County: Cook

Field ID: Stream ditch  Stream Name: Ditch 9  Investigators: CBM, BJH

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Storm (heavy rain)</th>
<th>Overcast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rain (steady rain)</td>
<td>O</td>
<td>Clear/Sunny</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

3. Circle flow regime:

<table>
<thead>
<tr>
<th>EPHEMERAL</th>
<th>PERENNIAL</th>
<th>INTERMITTENT</th>
</tr>
</thead>
</table>

4. Stream habitats present:

<table>
<thead>
<tr>
<th>Pool(s)</th>
<th>Run(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

5. Stream Velocity:

<table>
<thead>
<tr>
<th>fast</th>
<th>moderate</th>
<th>slow</th>
<th>N/A</th>
</tr>
</thead>
</table>

6. Nature of the particles in the stream bottom:

<table>
<thead>
<tr>
<th>sand</th>
<th>gravel</th>
</tr>
</thead>
</table>

7. Presence of naturally occurring organic material in stream:

<table>
<thead>
<tr>
<th>Unknown</th>
<th>None</th>
<th>Occasional</th>
<th>Plentiful</th>
</tr>
</thead>
</table>

8. Facing upstream, does this stream have tree cover for 50 feet on the:

<table>
<thead>
<tr>
<th>left side</th>
<th>no</th>
<th>right side</th>
<th>no</th>
</tr>
</thead>
</table>

9. Water Appearance:

<table>
<thead>
<tr>
<th>clear</th>
<th>milky</th>
<th>chloride</th>
</tr>
</thead>
</table>

10. Water Odor:

<table>
<thead>
<tr>
<th>sewage</th>
<th>milky</th>
<th>chloroform</th>
</tr>
</thead>
</table>

11. Presence of logs or large woody debris in stream:

<table>
<thead>
<tr>
<th>None</th>
<th>Occasional</th>
<th>Plentiful</th>
</tr>
</thead>
</table>

12. Pick the category that best describes the extent to which vegetation shades the stream:

<table>
<thead>
<tr>
<th>0%</th>
<th>25%</th>
<th>50%</th>
<th>75%</th>
<th>100%</th>
<th>other - x%</th>
</tr>
</thead>
</table>

13. Pick the description that best fits the stream bank and the channel (facing upstream):

a) Stream bank:

<table>
<thead>
<tr>
<th>Vertical/undercut</th>
<th>Steeply sloping (&gt;30°)</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gradual/No slope (&lt;30°)</td>
<td>X</td>
</tr>
</tbody>
</table>

b) Shape of the channel:

<table>
<thead>
<tr>
<th>Narrow, Deep</th>
<th>Wide, Deep</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narrow, Shallow</td>
<td>Wide, Shallow</td>
<td></td>
</tr>
</tbody>
</table>

14. Describe the streamside cover. Check "P" if present, "C" if common:

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>P P C</td>
<td>P C</td>
</tr>
</tbody>
</table>

a) Along the water's edge and stream bank only (facing upstream):

Trees: Bushes, Shrubs, Tall grasses, forbs, Lawn, maintained landscape, Boulders/Rocks/Rip Rap, Gravel/Sand, Bare Soil, Pavement, Structures, Gabions

b) From the top of the streambank out to 50 feet:

Trees: Bushes, Shrubs, Tall grasses, forbs, Lawn, maintained landscape, Boulders/Rocks, Gravel/Sand, Bare Soil, Pavement, Structures

15. In the vicinity of the stream. Check "P" if present, "C" if common:

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>P P C</td>
<td>P C</td>
</tr>
</tbody>
</table>

Natural Streamside plant cover degraded, Banks collapsed/eroded, Garbage/junk adjacent to the stream, Foam or sheen on bank, Mud, silt, or sand in or entering the stream, Garbage/junk in the stream, Yard waste on bank (clippings, leaves, etc.), Livestock in or with unrestricted access, Actively discharging pipes, Other pipes, Ditches entering stream

16. Ordinary High Water Mark Determination

Check "P" if observed; Check "U" if used to determine OHWM:

| P U | Natural line impressed on the bank |
|-----| Shelving |
|     | Changes in the character of soil |
|     | Destruction of terrestrial vegetation |
|     | Presence of litter and debris |
|     | Wracking |
|     | Vegetation matted down; bent, or absent |
|     | Sediment sorting |
|     | Leaf litter disturbed or washed away |
|     | Scour |
|     | Deposition |
|     | Multiple observed flow events |
|     | Bed and banks |
|     | Water staining |
|     | X X X Change in plant community |

17. Waters Type

<table>
<thead>
<tr>
<th>RPWNN</th>
<th>DELINEATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNW</td>
<td>NRPWW</td>
</tr>
<tr>
<td>TNWW</td>
<td>ISOLATE</td>
</tr>
<tr>
<td>X</td>
<td>UPLAND</td>
</tr>
<tr>
<td>RPWW</td>
<td>RPWPW</td>
</tr>
</tbody>
</table>

18. Observed Fauna (make note of wildlife deterrents such as bird wires)

List:

Invertebrates: mallards
Birds: Mammals: Reptile Amphians: Fish

19. Additional Comments

Datasheet entered by: Last Revised: 09/25
### Stream Characterization

**Field ID:** Stream Ditch

**Stream Name:** Ditch 10

**Date:** 7/15/2019  
**Site:** ORD  
**County:** Cook

#### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain):

<table>
<thead>
<tr>
<th>Weather Condition</th>
<th>Frequency</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain)</td>
<td></td>
<td>Overcast</td>
</tr>
<tr>
<td>Rain (steady rain)</td>
<td></td>
<td>Clear/Sunny</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Stream Habitat Characterization**

**Stream Velocity:**
- Fast
- Moderate
- Slow
- N/A

**Stream Velocity (facing upstream):**
- Fast
- Moderate
- Slow
- N/A

**Nature of the particles in the stream bottom:**
- Sand
- Gravel
- Sand/mud
- Silt/clay/mud
- Bedrock
- Boulders (> 10" diam.)
- Boulders (2 - 10" diam.)

**Presence of naturally occurring organic material in stream:**
- None
- Occasional
- Plentiful

**Nature of the particles in the stream bottom (facing upstream):**
- Sand
- Gravel
- Sand/mud
- Silt/clay/mud
- Bedrock
- Boulders (> 10" diam.)
- Boulders (2 - 10" diam.)

**Presence of naturally occurring organic material in stream:**
- None
- Occasional
- Plentiful

**Ordinary High Water Mark Determination**

**Check "P" if observed; Check "U" if used to determine OHWM**

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Bushes, Shrubs</td>
<td>Trees</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Tall grasses, forbs</td>
<td>Tall grasses, forbs</td>
</tr>
<tr>
<td>Lawn, maintained landscape</td>
<td>Lawn, maintained landscape</td>
</tr>
<tr>
<td>Boulders/Rocks/Rip Rap</td>
<td>Boulders/Rocks/Rip Rap</td>
</tr>
<tr>
<td>Gravel/Sand</td>
<td>Gravel/Sand</td>
</tr>
<tr>
<td>Bare Soil</td>
<td>Bare Soil</td>
</tr>
<tr>
<td>Pavement, Structures, Gabions</td>
<td>Pavement, Structures, Gabions</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
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<tr>
<td>X</td>
<td>X</td>
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<td>X</td>
<td>X</td>
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<tr>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Presence of litter and debris:**
- Leaf litter disturbed or washed away
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream

**Ordinary High Water Mark Determination**

**Left**

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Streamside plant cover degraded</td>
<td>Natural Streamside plant cover degraded</td>
</tr>
<tr>
<td>Banks/culverts/eroded</td>
<td>Banks/culverts/eroded</td>
</tr>
<tr>
<td>Garbage/junk adjacent to the stream</td>
<td>Garbage/junk adjacent to the stream</td>
</tr>
<tr>
<td>Foam or sheen on bank</td>
<td>Foam or sheen on bank</td>
</tr>
<tr>
<td>Mud, silt, or sand in or entering the stream</td>
<td>Mud, silt, or sand in or entering the stream</td>
</tr>
<tr>
<td>Garbage/junk in the stream</td>
<td>Garbage/junk in the stream</td>
</tr>
<tr>
<td>Yard waste on bank (clippings, leaves, etc.)</td>
<td>Yard waste on bank (clippings, leaves, etc.)</td>
</tr>
<tr>
<td>Livestock in or with unrestricted access</td>
<td>Livestock in or with unrestricted access</td>
</tr>
<tr>
<td>Actively discharging pipes</td>
<td>Actively discharging pipes</td>
</tr>
<tr>
<td>Other pipes</td>
<td>Other pipes</td>
</tr>
<tr>
<td>Ditches entering stream</td>
<td>Ditches entering stream</td>
</tr>
</tbody>
</table>

**Right**

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Streamside plant cover degraded</td>
<td>Natural Streamside plant cover degraded</td>
</tr>
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<td>Banks/culverts/eroded</td>
<td>Banks/culverts/eroded</td>
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<tr>
<td>Garbage/junk adjacent to the stream</td>
<td>Garbage/junk adjacent to the stream</td>
</tr>
<tr>
<td>Foam or sheen on bank</td>
<td>Foam or sheen on bank</td>
</tr>
<tr>
<td>Mud, silt, or sand in or entering the stream</td>
<td>Mud, silt, or sand in or entering the stream</td>
</tr>
<tr>
<td>Garbage/junk in the stream</td>
<td>Garbage/junk in the stream</td>
</tr>
<tr>
<td>Yard waste on bank (clippings, leaves, etc.)</td>
<td>Yard waste on bank (clippings, leaves, etc.)</td>
</tr>
<tr>
<td>Livestock in or with unrestricted access</td>
<td>Livestock in or with unrestricted access</td>
</tr>
<tr>
<td>Actively discharging pipes</td>
<td>Actively discharging pipes</td>
</tr>
<tr>
<td>Other pipes</td>
<td>Other pipes</td>
</tr>
<tr>
<td>Ditches entering stream</td>
<td>Ditches entering stream</td>
</tr>
</tbody>
</table>

**Stream Characterization Date:** 7/15/2019  
**Time:** AM  
**Site:** ORD  
**County:** Cook  
**Investigators:** BJH, KAS

**Ordinary High Water Mark Determination**

**Check "P" if observed; Check "U" if used to determine OHWM**

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural line impressed on the bank</td>
<td>Natural line impressed on the bank</td>
</tr>
<tr>
<td>Shelving</td>
<td>Shelving</td>
</tr>
<tr>
<td>Changes in the character of soil</td>
<td>Changes in the character of soil</td>
</tr>
<tr>
<td>Destruction of terrestrial vegetation</td>
<td>Destruction of terrestrial vegetation</td>
</tr>
<tr>
<td>Presence of litter and debris</td>
<td>Presence of litter and debris</td>
</tr>
<tr>
<td>Wracking</td>
<td>Wracking</td>
</tr>
<tr>
<td>Vegetation matted down; bent, or absent</td>
<td>Vegetation matted down; bent, or absent</td>
</tr>
<tr>
<td>Sediment sorting</td>
<td>Sediment sorting</td>
</tr>
<tr>
<td>Leaf litter disturbed or washed away</td>
<td>Leaf litter disturbed or washed away</td>
</tr>
<tr>
<td>Scour</td>
<td>Scour</td>
</tr>
<tr>
<td>Deposition</td>
<td>Deposition</td>
</tr>
<tr>
<td>Multiple observed flow events</td>
<td>Multiple observed flow events</td>
</tr>
<tr>
<td>Bed and banks</td>
<td>Bed and banks</td>
</tr>
<tr>
<td>Water staining</td>
<td>Water staining</td>
</tr>
<tr>
<td>Change in plant community</td>
<td>Change in plant community</td>
</tr>
</tbody>
</table>

**Waters Type**

- DELINEATE
- TNWW
- TNW
- RPWP
- RPWW
- RPWW
- TNWRPW
- RNWW
- NRPW
- RPWW

**Waters Type**

- RNWW
- NRPW
- RPWW
- RPWW
- RNWW
- NRPWW
- ISOLATE
- UPLAND
- RPWW

**Observed Fauna**

- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

**Additional Comments**

- Western portion of ditch 10 has herbaceous vegetation primarily which changes to trees and shrubs as it moves northeast and then back to herbaceous veg (Typha); east end flows to culvert at Higgins Rd.

**Datasheet entered by:** KAS  
**Last Revised:** 08/19
### Stream Characterization

**Date:** 7/15/2019  
**Site:** ORD  
**County:** Cook  
**Investigators:** BJH, KAS

#### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain)

#### Stream/Ditch

**Field ID:**  
**Stream Name:**  
**Date:**  
**Time:** AM  
**Site:** ORD  
**County:** Cook  
**Field ID:** Stream/Ditch

#### 1. Approximate depth of water in stream:
- N/A

#### 2. Approximate width of water flow:
- N/A

#### 3. Stream habitats present:
- pool(s)  
- run(s)  
- riffles(s)  
- bedrock

#### 4. Stream Velocity:
- fast  
- moderate  
- slow  
- N/A

#### 5. Nature of the particles in the stream bottom:
- sand  
- gravel  
- cobbles (2-10" diam.)  
- boulders (>10" diam.)

#### 6. Nature of the particles in the stream bottom:
- silt/clay/mud  
- None  
- Little  
- Some  
- Most

#### 7. Presence of naturally occurring organic material in stream:
- None  
- Occasional  
- Unknown  
- Plentiful

#### 8. Facing upstream, does this stream have tree cover for 50 feet on the:
- left side: no  
- right side: no

#### 9. Water Appearance:
- clear  
- milky  
- foamy  
- turbid  
- light brown  
- dark brown  
- organic  
- oily sheen

#### 10. Water Odor:
- sewage  
- chlorine  
- fishy  
- rotten eggs  
- other:

#### 11. Presence of logs or large woody debris in stream:
- None  
- Occasional  
- Plentiful

#### 12. Pick the category that best describes the extent to which vegetation shades the stream:
- 0%  
- 25%  
- 50%  
- 75%  
- 100%

#### 13. Pick the description that best fits the stream bank and the channel (facing upstream):
- Vertical/undercut
- Steeplely sloping (>30°)
- Gradual/No slope (<30°)

#### 14. Describe the streamside cover. Check "P" if present, "C" if common:
- Trees:  
- Bushes, Shrubs:  
- Tall grasses, forbs:  
- Lawn, maintained landscape:  
- Boulders/Rocks/Rip Rap:  
- Gravel/Sand:  
- Bare Soil:  
- Pavement, Structures, Gabions:

#### 15. In the vicinity of the stream, Check "P" if present, "C" if common:
- Natural Streamside plant cover degraded
- Banks collapsed/eroded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock enter or exit through accessibility
- Actively discharging pipes
- Other pipes
- Ditches entering stream

#### 16. Ordinary High Water Mark Determination
- Check "P" if observed; Check "U" if used to determine OHWM
- Natural line impressed on the bank
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- Change in plant community

#### 17. Waters Type
- DELINEATE  
- NRPW
- TNW
- NRPWW
- TNWW
- ISOLATE
- RPW
- UPLAND
- RPWW

#### 18. Observed Fauna (make note of wildlife deterents such as bird wires)
- Invertebrates
- Birds: red-winged blackbirds
- Mammals
- Reptile Amphibians
- Fish

#### 19. Additional Comments
- Along the length of this ditch the vegetation changed from being dominated by cattails, to trees and shrubs, to forbs/bare ground.

**Datsheet entered by:** KAS  
**Last Revised:** 08/19
### Stream Characterization

**Date:** 8/29/2019  **Time:** 3:00pm  **Site:** ORD  **County:** Cook

**Stream Characterization**

<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Stream Name: Ditch 12</th>
<th>County: Cook</th>
</tr>
</thead>
</table>

**Date:** 8/29/2019  **Time:** 3:00pm  **Site:** ORD  **County:** Cook

#### Weather in the past 24 hours:

- Storm (heavy rain): Overcast
- Rain (steady rain): X Clear/Sunny
- Showers (intermittent rain): X

#### Circle flow regime:

EPHEMERAL  INTERMITTENT  PERENNIAL

#### Rainfall in the past 24 hours:

- Storm (heavy rain): Overcast
- Rain (steady rain): X Clear/Sunny
- Showers (intermittent rain): X

#### Stream habitats present:

*Pool(s)*  Run(s)  Interfluve(s)  N/A

#### Water Appearance:

- clear
- milky
- chlorinated
- foamy
- fishy
- turbid
- light brown
- dark brown
- organic
- oily sheen
- none
- greenish
- other:

#### Stream Velocity:

- fast
- moderate
- slow
- N/A

#### Nature of the particles in the stream bottom:

- silt/clay/mud
- sand
- gravel
- cobbles (1 - 10" diam.)
- boulders (> 10" diam.)
- bedrock

#### Presence of naturally occurring organic material in stream:

- None
- Occasional
- Unknown
- Plentiful

#### Presence of logs or large woody debris in stream:

- None
- Occasional
- Plentiful

#### Plant Species Adjacent to stream (scientific name):

- *Typha angustifolia, Lythrum salicaria, Alisma subcordatum*

#### Facing upstream, does this stream have tree cover for 50 feet on the:

- Left side: no
- Right side: no

#### Facing upstream, does this stream have shrub cover for 50 feet on the:

- Left side: no
- Right side: no

#### Ordinary High Water Mark Determination

- Natural line impressed on the bank
- Shelving
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Scour
- Bed and banks
- Water staining
- Change in plant community

#### Waters Type

- DELINEATE
- RPWNN
- TNW
- NRPW
- TNWW
- ISOLATE
- RPW
- UPLAND
- RPWWD
- TNWRPW

#### Observed Fauna (make note of wildlife deterrents such as bird wires):

- *Invertebrates*  crickets  Birds  Mammals  Reptile/Amphians  Fish

#### Additional Comments

- Riprap around culvert entrances and exits; multiple side culverts

---

**Datasheet entered by:**  Last Revised: 09/25
Stream Characterization

<table>
<thead>
<tr>
<th>Date: 7/19/2019</th>
<th>Time:</th>
<th>Site: ORD TAP</th>
<th>County: Cook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field ID: Stream Name:</td>
<td>Ditch 13 - section 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain): 

1. Approximate depth of water in stream:
   - Left: up to 6" N/A
   - Right: up to 8" N/A

2. Stream Velocity:
   - Last: N/A
   - Moderate: N/A
   - Slow: N/A

3. Stream habitats present:
   - X Pool(s)
   - Run(s)

4. Stream flow regime:
   - Ephemeral
   - Perennial
   - Intermittent

5. Water Appearance:
   - X Clear/Sunny
   - Rain (steady rain): X
   - Showers (intermittent rain): X

6. Presence of naturally occurring organic material in stream:
   - Unknown
   - None
   - Occasional
   - Plentiful

7. Presence of logs or large woody debris in stream:
   - X None
   - Occasional
   - Plentiful

8. Facing upstream, does this stream have tree cover for 50 feet on the:
   - Left side: no
   - Right side: no

9. Water Odor:
   - X Sewage
   - Milky
   - Chlorine
   - Foamy
   - Fishy
   - Turbid
   - Rotten eggs
   - Light brown
   - Organic
   - Dark brown
   - Other:

10. Presence of logs or large woody debris in stream:
    - X None
    - Occasional
    - Plentiful

11. Presence of logs or large woody debris in stream:
    - X None
    - Occasional
    - Plentiful

12. Pick the category that best describes the extent to which vegetation shades the stream:
    - X 0%
    - 25%
    - 75%
    - 100%
    - Other - __%

13. Pick the description that best fits the stream bank and the channel (facing upstream):
    - X Narrow, Shallow
    - Wide, Deep
    - Vertical/Undercut
    - Steeply sloping (>30°)
    - Gradual/No slope (<30°)

14. Describe the streamside cover. Check "P" if present, "C" if common:
   - Along the water's edge and stream bank only (facing upstream):
     - Trees
     - Bushes, Shrubs
     - Tall grasses, forbs
     - Lawn, maintained landscape
     - Boulders/Rocks/Rip Rap
     - Gravel/Sand
     - Bare Soil
     - Pavement, Structures, Gabions

   - From the top of the stream bank out to 50 feet:
     - Trees
     - Bushes, Shrubs
     - Tall grasses, forbs
     - Lawn, maintained landscape
     - Boulders/Rocks
     - Gravel/Sand
     - Bare Soil
     - Pavement, Structures

15. In the vicinity of the stream, check "P" if present, "C" if common:
    - Natural Streamside plant cover degraded
    - Banks collapsed/eroded
    - Garbage/junk adjacent to the stream
    - Foam or sheen on bank
    - Mud, silt, or sand in or entering the stream
    - Garbage/junk in the stream
    - Yard waste on bank (clippings, leaves, etc.)
    - Livestock in or with unrestricted access
    - Actively discharging pipes
    - Ditches entering stream

16. Ordinary High Water Mark Determination
    Check "P" if observed; Check "U" if used to determine OHWM
    - Natural line impressed on the bank
    - Shelving
    - Changes in the character of soil
    - Destruction of terrestrial vegetation
    - Presence of litter and debris
    - Wracking
    - Vegetation matted down; bent, or absent
    - Sediment sorting
    - Leaf litter disturbed or washed away
    - Scour
    - Deposition
    - Multiple observed flow events
    - Bed and banks
    - Water staining
    - Change in plant community

17. Waters Type
    - DELINATE
    - RPWNN
    - TNW
    - TNRPW
    - RN PW
    - ISOLATE
    - RPW
    - UPLAND
    - TPW

18. Observed Fauna (make note of wildlife deterrents such as bird wires)
    - Invertebrates
    - Birds
    - Mammals
    - Reptile/Amphians
    - Fish

19. Additional Comments
    - east side of ditch is stockpile from 80s and has water seeping into ditch at multiple locations; some with iron sheen
data as to whether to delineate as stream or wetland

Datasheet entered by: KAS
Last Revised: 08/19
### Stream Characterization

<table>
<thead>
<tr>
<th>Date: 7/16/2019</th>
<th>Time: AM</th>
<th>Site: ORD</th>
<th>County: Cook</th>
<th>Field ID: Stream/Ditch</th>
<th>Stream Name: Ditch 13 - section 2</th>
</tr>
</thead>
</table>

**Weather in the past 24 hours:**
- Storm (heavy rain): Overcast
- Rain (steady rain): X Clear/Sunny
- Showers (intermittent rain): X

**Stream Characteristics:**
- **Flow Regime:** EPHEMERAL, INTERMITTENT
- **Stream Velocity:** last moderate X slow N/A
- **Water Appearance:** none
- **Water Odor:** none
- **Stream habitats present:** X X
- **Stream bank:** X X
- **Presence of logs or large woody debris in stream:** X None Occasional Plentiful

**Approximate depth of pool(s):**
- Unknown X 0% 50% 100% None X Occasional Plentiful

**Facing upstream, does this stream have tree cover for 50 feet on the:**
- left side X right side X

**Facing upstream, does this stream have shrub cover for 50 feet on the:**
- left side X right side X

**Shape of the channel:**
- X Gradual/No slope (<30°)

**Water Type:**
- DELINEATE
- RPWWN
- TNW

**Observed Fauna:**
- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

**Additional Comments:**
- This system includes a channelized and cobble lined stream from the airport via large culverts that pass under RR tracks and that connects to Willow Creek. Stream banks are sparsely vegetated and very steep, cobbled/armored but with some trees near RR.

**Ditches entering stream:**
- Tall grasses, forbs
- Lawn, maintained landscape
- Boulders/Rocks/Rip Rap
- Pavement, Structures, Gabions
- Other pipes
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream

**Dataset entered by:** KAS

**Last Revised:** 08/19
<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Stream Characterization</th>
<th>Date: 9/23/2019</th>
<th>Time: 8:30 AM</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
</table>

### Weather in the past 24 hours:
- X Storm (heavy rain)
- Rain (steady rain)
- Showers (intermittent rain)

### Stream Characteristics:

<table>
<thead>
<tr>
<th>Weather in the past 24 hours</th>
<th>Investigators: CBM, BJH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain)</td>
<td>Overcast</td>
</tr>
<tr>
<td>Rain (steady rain)</td>
<td>Clear/Sunny</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td></td>
</tr>
</tbody>
</table>

5. Circle flow regime: EPHEMERAL PERENNIAL INTERMITTENT

4. Stream habitats present:
- Pool(s) Run(s) Riffles(s) N/A

6. Nature of the particles in the stream bottom:
- Erosion by water:
  - silt/clay/mud
  - sand
  - gravel
  - cobbles (> 10" diam.)
  - boulders (> 10" diam.)

7. Presence of naturally occurring organic material in stream:
- Unknown

### Plant Species Adjacent to stream (scientific name):
- Rhamnus cathartica
- Salix sp.
- Populus deltoides
- Solidago sempervirens
- Dipsacus laciniatus
- Phragmites australis
- Typha angustifolia

### Ordinary High Water Mark Determination:

16. Ordinary High Water Mark Determination

<table>
<thead>
<tr>
<th>Observations</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural line impressed on the bank</td>
<td>X</td>
</tr>
<tr>
<td>Shelving</td>
<td>X</td>
</tr>
<tr>
<td>Changes in the character of soil</td>
<td>X</td>
</tr>
<tr>
<td>Destruction of terrestrial vegetation</td>
<td>X</td>
</tr>
<tr>
<td>Presence of litter and debris</td>
<td>X</td>
</tr>
<tr>
<td>Wracking</td>
<td>X</td>
</tr>
<tr>
<td>Vegetation matted down; bent, or absent</td>
<td>X</td>
</tr>
<tr>
<td>Sediment sorting</td>
<td>X</td>
</tr>
<tr>
<td>Leaf litter disturbed or washed away</td>
<td>X</td>
</tr>
<tr>
<td>Scour</td>
<td>X</td>
</tr>
<tr>
<td>Deposition</td>
<td>X</td>
</tr>
<tr>
<td>Multiple observed flow events</td>
<td>X</td>
</tr>
<tr>
<td>Bed and banks</td>
<td>X</td>
</tr>
<tr>
<td>Water staining</td>
<td>X</td>
</tr>
<tr>
<td>Change in plant community</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Waters Type</th>
<th>RPWWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELINATE</td>
<td>X</td>
</tr>
<tr>
<td>TNW</td>
<td>X</td>
</tr>
<tr>
<td>NRPWW</td>
<td>X</td>
</tr>
<tr>
<td>TNWW</td>
<td>X</td>
</tr>
<tr>
<td>ISOLATE</td>
<td>X</td>
</tr>
<tr>
<td>RPW</td>
<td>X</td>
</tr>
<tr>
<td>UPLAND</td>
<td>X</td>
</tr>
<tr>
<td>RPWWD</td>
<td>X</td>
</tr>
<tr>
<td>TNWRPW</td>
<td>X</td>
</tr>
</tbody>
</table>

17. Waters Type

18. Observed Fauna (make note of wildlife deterrents such as bird wires):

<table>
<thead>
<tr>
<th>Fauna</th>
<th>List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invertebrates</td>
<td>dragonflies, butterflies</td>
</tr>
<tr>
<td>Birds</td>
<td></td>
</tr>
<tr>
<td>Mammals</td>
<td></td>
</tr>
<tr>
<td>Reptile/Amphians</td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td></td>
</tr>
</tbody>
</table>

19. Additional Comments:
Heavy rain night before; flowing water
24" pipe drains into ditch; large box culvert at north end. Drains under Mannheim Rd to the east.

Datasheet entered by: | Last Revised: 09/25
### Stream Characterization

**Date:** 9/23/2019  **Time:** 8:55am  **Site:** ORD  **County:** Cook

**Field ID:** Stream/Ditch **Stream Name:** Ditch 15

**Investigators:** CBM, BJH

#### Weather in the past 24 hours:
- Storm (heavy rain) **Overcast**
- Rain (steady rain) **Clear/Sunny**
- Showers (intermittent rain) **Clear/Sunny**

#### Weather in the past 24 hours:
- Storm (heavy rain) **Overcast**
- Rain (steady rain) **Clear/Sunny**
- Showers (intermittent rain) **Clear/Sunny**

#### Presence of logs or large woody debris in stream:
- None  **Occasional**  **Plentiful**

#### Presence of naturally occurring organic material in stream:
- None  **Occasional**  **Plentiful**

#### Bank height (channel depth):
- X  **N/A**

#### Stream bank:
- X  **N/A**  **Unknown**  **Plentiful**

#### Presence of litter and debris:
- Natural line impressed on the bank  **Shelving**
- Changes in the character of soil  **Destruction of terrestrial vegetation**
- Presence of litter and debris  **Wracking**
- Vegetation matted down; bent, or absent  **Sediment sorting**
- Leaf litter disturbed or washed away  **Scour**
- Deposition  **Multiple observed flow events**
- Bed and banks  **Water staining**
- Change in plant community  **X**

#### Waters Type:
- DELINЕATE  **NRPW**
- TНW  **NRPW**
- TNWW  **ISOLATE**
- RPW  **UPLAND**
- RPWW  **X**
- TНPW  **X**

#### Observed Fauna:
- Invertebrates  **butterflies**
- Birds  **x**
- Mammals  **x**
- Reptile/Amphians  **x**
- Fish  **x**

#### Additional Comments:
- Heavy rainstorm; 12" culvert near south end
- Banks mown periodically

---

**Datasheet entered by:**  **Last Revised:** 09/25
### Stream Characterization

<table>
<thead>
<tr>
<th>Date: 9/25/2019</th>
<th>Time: 9:45am</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field ID:</strong> Stream/Ditch</td>
<td><strong>Stream Name:</strong> Ditch 16</td>
<td><strong>Investigators:</strong> CBM, BJH</td>
<td></td>
</tr>
</tbody>
</table>

#### Weather in the past 24 hours:
- Storm (heavy rain) | Overcast | Rain (steady rain) | Clear/Sunny | Showers (intermittent rain) |

#### Circle flow regime:
- EPHEMERAL
- PERENNIAL
- INTERMITTENT

#### Stream habitats present:
- Pool(s)
- Run(s)
- riffles(s)

#### Water Appearance:
- clear
- milky
- chlorine
- foamy
- fishy
- turbid
- light brown
- organic
- dark brown
- oily sheen
- rotten eggs
- X

#### Presence of logs or large woody debris in stream:
- None
- Occasional
- Plentiful

#### Nature of the particles in the stream bottom:
- sand
- gravel
- cobbles (2 - 10" diam.)
- bedrock

#### Approximate depth of water in stream:
- 3' to 1 ft
- 3-12 ft

#### Approximate width of water flow:
- N/A

#### Approximate width of stream:
- (from top of bank to top of bank)

#### Approximate height of banks (channel depth):
- left 10 ft
- right 10 ft

#### Presence of naturally occurring organic material in stream:
- None
- Occasional
- Plentiful

#### Facing upstream, does this stream have tree cover for 50 feet on the:
- left side
- right side

#### Facing upstream, does this stream have shrub cover for 50 feet on the:
- left side
- right side

#### Presence of logs or large woody debris in stream:
- X
- None
- Occasional
- Plentiful

#### Pick the category that best describes the extent to which vegetation shades the stream:
- 0%
- 50%
- 100%
- other - ___%

#### Ordinary High Water Mark Determination

- Natural line impressed on the bank
- Shelving
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- X
- Change in plant community

#### Waters Type
- DELINEATE
- TNW
- RPW
- RPWW
- X

#### Observed Fauna
- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

#### Additional Comments
- Phragmites filled; side ditch for Ditch 13W
- Ditches entering stream

**Datasheet entered by:** CookORD

**Last Revised:** 09/25
### Stream Characterization

**Date:** 2019-09-25 8:30am  
**Site:** ORD  
**County:** Cook  
**Investigators:** CBM, BJH

<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Stream Name: Ditch 17</th>
</tr>
</thead>
</table>

#### Stream Weather
- Storm (heavy rain): Overcast
- Rain (steady rain): X Clear/Sunny
- Showers (intermittent rain): None

#### Stream Characteristics

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weather in the past 24 hours:</td>
<td>X Clear/Sunny</td>
</tr>
<tr>
<td>Storm (heavy rain):</td>
<td>Overcast</td>
</tr>
<tr>
<td>Rain (steady rain):</td>
<td>X Clear/Sunny</td>
</tr>
<tr>
<td>Showers (intermittent rain):</td>
<td>None</td>
</tr>
<tr>
<td>Water Appearance:</td>
<td>None</td>
</tr>
<tr>
<td>Water Odor:</td>
<td>None</td>
</tr>
<tr>
<td>Water Temperature:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Water Transparency:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Water Flow:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Water Level:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Water Level Change:</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

#### Stream velocity
- Fast: X
- Moderate: N/A
- Slow: N/A

#### Stream Habitat
- Silt/clay/mud: X
- Sand: X
- Gravel: X
- Cobble (2-10" diam.): X
- Boulders (>10" diam.): X
- Bedrock: X
- Silt: X
- Sediment: X

#### Stream Bank
- Left: X
- Right: X

#### Stream Bank Erosion
- Mud, silt, or sand in or entering the stream: X
- Bushes, Shrubs: X
- Tall grasses, forbs: X
- Bare Soil: X
- Pavement, Structures, Gabions: X
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X

#### Streamside Cover
- Tall grasses, forbs: X
- Vegetable matted down; bent, or absent: X
- Territorial vegetation: X
- Territorial vegetation: X
- Territorial vegetation: X

#### Streamside Erosion
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X

#### Streamside Vegetation
- Trees: X
- Bushes, Shrubs: X
- Tall grasses, forbs: X
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X

#### Streamside Erosion
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X

#### Streamside Vegetation
- Trees: X
- Bushes, Shrubs: X
- Tall grasses, forbs: X
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X

#### Streamside Erosion
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X

#### Streamside Vegetation
- Trees: X
- Bushes, Shrubs: X
- Tall grasses, forbs: X
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X

#### Streamside Erosion
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X

#### Streamside Vegetation
- Trees: X
- Bushes, Shrubs: X
- Tall grasses, forbs: X
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X

#### Streamside Erosion
- Natural Streamside plant cover degraded: X
- Garbage/junk adjacent to the stream: X
- Foam or sheen on bank: X
- Mud, silt, or sand in or entering the stream: X
- Yard waste on bank (clippings, leaves, etc.): X
- Livestock in or with unrestricted access: X
- Actively discharging pipes: X
- Other pipes: X
- Ditches entering stream: X
<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Ditch 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>9/25/2019</td>
</tr>
<tr>
<td>Time:</td>
<td>8:00am</td>
</tr>
<tr>
<td>Site:</td>
<td>ORD</td>
</tr>
<tr>
<td>County:</td>
<td>Cook</td>
</tr>
</tbody>
</table>

### Stream Characterization

- **Date:** 9/25/2019
- **Time:** 8:00am
- **Site:** ORD
- **County:** Cook

#### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain):

#### 1. Approximate depth of water in stream:
- N/A
- 1-4 ft

#### 2. Approximate width of water flow:
- N/A
- 15 ft

#### 3. Stream habitats present:
- Pool(s):
- Run(s):
- riffles(s):
- N/A

#### 4. Stream Velocity:
- Fast
- Moderate
- Slow
- N/A

#### 5. Nature of the particles in the stream bottom:
- silt/clay/mud
- sand
- gravel
- cobble (2 - 10" diam.)
- gravel
- gravel

#### 6. Presence of naturally occurring organic material in stream:
- Unknown
- None
- Occasional
- Plentiful

#### 7. Presence of logs or large woody debris in stream:
- X None
- Occasional
- Plentiful

#### 8. Facing upstream, does this stream have tree cover:
- for 50 feet on the:
  - left side: yes
  - right side: yes

#### 9. Water Appearance:
- clear
- milky
- chlorinated
- foamy
- fishy
- turbid
- rotten eggs
- light brown
- organic
- dark brown
- oily sheen
- orange
- none

#### 10. Water Odor:
- greenish
- other:

#### 11. Presence of logs or large woody debris in stream:
- X None
- Occasional
- Plentiful

#### 12. Pick the category that best describes the extent to which vegetation shades the stream:
- 0%
- 50%
- 100%
- 25%
- 75%
- other:

#### 13. Pick the description that best fits the stream bank and the channel (facing upstream):
- Left:
  - Vertical/undercut
  - Steeply sloping (>30°)
  - X
- Right:
  - Gradual/No slope (<30°)

#### 14. Describe the streamside cover. Check "P" if present, "C" if common:
- Natural Streamside plant cover degraded
- Banks collapsed/eroded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream

#### 15. In the vicinity of the stream, Check "P" if present, "C" if common:
- Natural Streamside plant cover degraded
- Banks collapsed/eroded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream

#### 16. Ordinary High Water Mark Determination

- Check "P" if observed; Check "U" if used to determine OHWM
  - Natural line impressed on the bank
  - Shelving
  - Changes in the character of soil
  - Destruction of terrestrial vegetation
  - Presence of litter and debris
  - Wrack
  - Vegetation matted down; bent, or absent
  - Sediment sorting
  - Leaf litter disturbed or washed away
  - Scour
  - Deposition
  - Multiple observed flow events
  - Bed and banks
  - Water staining
  - X
  - X
  - X
  - Change in plant community

#### 17. Waters Type
- DELINEATE
- RPWNN
- TNW
- TNWW
- ISOolate
- X
- RPW
- UPLAND
- RPWW
- TNWRPWW

#### 18. Observed Fauna (make note of wildlife deterrents such as bird wires)
- X
- Invertebrates
- butterflies
- Birds
- Mammals
- Reptile/Amphians
- Fish

#### 19. Additional Comments
- flows east, connects to ditch 13 on west side
- east of Mannheim Rd via large box culvert

**Datasheet entered by:** [Name]
**Last Revised:** 09/25
<table>
<thead>
<tr>
<th>Field ID: Ditch 19</th>
<th>Stream Characterization</th>
<th>Date: 9/18/2019</th>
<th>Time: 10:15 AM</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
</table>

### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain): X

### Stream Characterization

#### Stream/Ditch
- Field ID:

#### Weather in the past 24 hours:

- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain): X

#### Stream Name:
- Investigators:

#### 1. Approximate depth of water in stream:
- X N/A

#### 2. Plant Species Adjacent to stream (scientific name):
- Acer negundo, Robinia pseudoacacia
- Understory: Vitis riparia

#### 3. Circle flow regime:
- EPHEMERAL

#### 4. Stream habitats present:
- Pool(s): X
- Run(s): N/A

#### 5. Water Appearance:
- clear
- milky
- cloudy
- foamy
- turbid
- light brown
- dark brown
- organic
- oily sheen
- X none

#### 6. Nature of the particles in the stream bottom:
- sand: X
- gravel: X
- cobbles (> 10" diam.): X
- boulders (> 10" diam.): X

#### 7. Presence of naturally occurring organic material in stream:
- None
- Occasional
- X Plentiful

#### 8. Facing upstream, does this stream have tree cover for 50 feet on the:
- left side: yes
- right side: yes

#### 9. Water Odor:
- sewage
- chlorine
- fishy
- rotten eggs
- X none

#### 10. Water Odor:
- clear
- milky
- cloudy
- foamy
- turbid
- light brown
- X dark brown
- organic
- oily sheen
- X none

#### 11. Presence of logs or large woody debris in stream:
- None
- Occasional
- X Plentiful

#### 12. Pick the category that best describes the extent to which vegetation shades the stream:
- 0%
- 50%
- X 100%
- 25%
- 75%
- X other - _____%

#### 13. Pick the description that best fits the stream bank and the channel (facing upstream):
- Vertical/undercut
- Steeply sloping (>30°)
- X
- Gradual/No slope (<30°)

#### 14. Describe the streamside cover. Check "P" if present, "C" if common:
- Ditches entering stream
- Garbage/junk in the stream
- X Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Natural Streamside plant cover degraded
- Banks collapsed/eroded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- X Livestock in or with unrestricted access
- X Active discharging pipes
- Other pipes
- Ditches entering stream

#### 15. In the vicinity of the stream, Check "P" if present, "C" if common:
- Natural Streamside plant cover degraded
- Banks collapsed/eroded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- X Livestock in or with unrestricted access
- X Active discharging pipes
- Other pipes
- Ditches entering stream

#### 16. Ordinary High Water Mark Determination

Check "P" if observed; Check "U" if used to determine OHWM
- Natural line impressed on the bank
- Shelving
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- X Bed and banks
- Water staining
- Change in plant community

#### 17. Waters Type
- X DELINEATE
- TNW
- NRPW
- RPW
- UPLAND
- RPWW

#### 18. Observed Fauna (make note of wildlife deterrents such as bird wires)
- X Invertebrates
- mosquitos
- Birds
- Mammals
- Reptile/Amphians
- Fish

#### 19. Additional Comments
- Short, deep ditch cut into hillside entering Willow Creek.

Datasheet entered by: Last Revised: 09/25
Stream Characterization  

<table>
<thead>
<tr>
<th>Field ID: Ditch</th>
<th>Stream Name: Ditch 20</th>
<th>County: Cook</th>
</tr>
</thead>
</table>

**Date:** 9/17/2019  **Time:** 1:20 PM  **Site:** ORD  

1. **Weather in the past 24 hours:**
   - Storm (heavy rain)  
   - Rain (steady rain)  
   - Showers (intermittent rain)  

   **Stream/Weather:**
   - Overcast  
   - Clear/Sunny  
   - Storm (heavy rain)  
   - Rain (steady rain)  
   - Showers (intermittent rain)  

2. **Stream/Weather:**
   - Storm (heavy rain)  
   - Rain (steady rain)  
   - Showers (intermittent rain)  

3. **Stream Velocity:**
   - Fast  
   - Moderate  
   - Slow  

4. **Stream Flow Regime:**
   - Intermittent  
   - Perennial  
   - Ephemeral  

5. **Stream Habitats Present:**
   - Pool(s)  
   - Run(s)  

6. **Nature of the Particles in the Stream Bottom:**
   - Silt/clay/mud  
   - Sand  
   - Gravel  
   - Bedrock  

7. **Presence of Naturally Occurring Organic Material in Stream:**
   - Unknown  
   - None  
   - Occasional  
   - Plentiful  

8. **Facing upstream, does this stream have tree cover for 50 feet on the:**
   - Left side  
   - Right side  

9. **Water Appearance:**
   - Clear  
   - Murky  
   - Greenish  
   - Yellow  
   - Brown  
   - Black  
   - White  
   - Orange  
   - Green  
   - Red  

10. **Water Odor:**
   - Sulfurous  
   - Catty  
   - fishy  
   - foul  
   - aromatic  
   - musty  
   - foamy  
   - rotten  
   - stinky  
   - fishy  

11. **Presence of logs or large woody debris in stream:**
   - None  
   - Occasional  
   - Plentiful  

12. **Facing upstream, does this stream have shrub cover for 50 feet on the:**
   - Left side  
   - Right side  

13. **Shape of the channel:**
   - Narrow, Deep  
   - Wide, Deep  
   - Narrow, Shallow  
   - Wide, Shallow  

14. **Describe the streamside cover. Check "P" if present, "C" if common:**
   - Natural Streamside plant cover degraded  
   - Banks collapsed/eroded  
   - Garbage/junk adjacent to the stream  
   - Foam or sheen on bank  
   - Mud, silt, or sand in or entering the stream  
   - Garbage/junk in the stream  
   - Yard waste on bank (clippings, leaves, etc.)  
   - Livestock in or with unrestricted access  
   - Actively discharging pipes  
   - Other pipes  
   - Ditches entering stream  

15. **In the vicinity of the stream, Check "P" if present, "C" if common:**
   - Natural Streamside plant cover degraded  
   - Garbage/junk adjacent to the stream  
   - Garbage/junk in the stream  
   - Yard waste on bank (clippings, leaves, etc.)  
   - Livestock in or with unrestricted access  
   - Actively discharging pipes  
   - Other pipes  
   - Ditches entering stream  

16. **Ordinary High Water Mark Determination:**
   - Right  
   - Left  

17. **Waters Type:**
   - DELINEATE  
   - NRPW  
   - NRPWW  
   - TNWW  
   - TNPW  
   - UPLAND  
   - RPWW  
   - RPWW  

18. **Observed Fauna:**
   - List  
   - Invertebrates  
   - Birds  
   - Mammals  
   - Reptile/Amphians  
   - Fish  

19. **Additional Comments:**
   - Landscaped ditch; transitions into woods before exiting into Willow Crk  

**Datasheet entered by:**  
**Last Revised:** 09/25
Stream Characterization

**Field ID:** Stream/Ditch  
**Stream Name:** Ditch 21  
**Date:** 9/25/2019  
**Time:** 3:30pm  
**Site:** ORD  
**County:** DuPage  
**Investigators:** CBM, BJH

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain) Overcast</td>
<td>EPHEMERAL PERENNIAL</td>
<td>clear</td>
<td>sewage</td>
</tr>
<tr>
<td>Rain (steady rain) Clear/Sunny</td>
<td>INTERMITTENT</td>
<td>milky</td>
<td>chlorine</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td>N/A</td>
<td>foamy</td>
<td>light brown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 inch</td>
<td>fast</td>
<td>Unknown</td>
</tr>
<tr>
<td>b) Approximate width of water flow:</td>
<td>moderate</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>slow</td>
<td>Occasional</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td>X Plentiful</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Plant Species Adjacent to stream (scientific name):</th>
<th>8. Facing upstream, does this stream have tree cover for 50 feet on the:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ulmus pumila</td>
<td>left side yes</td>
</tr>
<tr>
<td>Solidago sempervirens</td>
<td>right side no</td>
</tr>
<tr>
<td>Typha angustifolia</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>11. Presence of logs or large woody debris in stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X None</td>
</tr>
<tr>
<td>Occasional Plentiful</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12. Pick the category that best describes the extent to which vegetation shades the stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X 0%</td>
</tr>
<tr>
<td>50%</td>
</tr>
<tr>
<td>100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13. Pick the description that best fits the stream bank and the channel (facing upstream):</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Stream bank:</td>
</tr>
<tr>
<td>Vertical/undercut</td>
</tr>
<tr>
<td>X Steeply sloping (&gt;30°)</td>
</tr>
<tr>
<td>X Gradual/No slope (&lt;30°)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14. Describe the streamside cover. Check &quot;P&quot; if present, &quot;C&quot; if common:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Along the water's edge and stream bank onl y (facing upstream):</td>
</tr>
<tr>
<td>Left Trees</td>
</tr>
<tr>
<td>Bushes, Shrubs</td>
</tr>
<tr>
<td>Tall grasses, forbs</td>
</tr>
<tr>
<td>Lawn, maintained landscape</td>
</tr>
<tr>
<td>Boulders/Rocks/Rip Rap</td>
</tr>
<tr>
<td>Gravel/Sand</td>
</tr>
<tr>
<td>Bare Soil</td>
</tr>
<tr>
<td>Pavement, Structures</td>
</tr>
<tr>
<td>X X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15. In the vicinity of the stream, Check &quot;P&quot; if present, &quot;C&quot; if common:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Natural Streamside plant cover degraded</td>
</tr>
<tr>
<td>Banks collapsed/eroded</td>
</tr>
<tr>
<td>Garbage/junk adjacent to the stream</td>
</tr>
<tr>
<td>Foam or sheen on bank</td>
</tr>
<tr>
<td>Mud, silt, or sand in or entering the stream</td>
</tr>
<tr>
<td>Garbage/junk in the stream</td>
</tr>
<tr>
<td>Yard waste on bank (clippings, leaves, etc.)</td>
</tr>
<tr>
<td>Livestock in or with unrestricted access</td>
</tr>
<tr>
<td>Actively discharging pipes</td>
</tr>
<tr>
<td>Other pipes</td>
</tr>
<tr>
<td>Ditches entering stream</td>
</tr>
<tr>
<td>X X</td>
</tr>
</tbody>
</table>

| 16. Ordinary High Water Mark Determination: |
| Check "P" if observed; Check "U" if used to determine OHWM: |
| Natural line impressed on the bank                                      |
| Shelving                                                              |
| Changes in the character of soil                                      |
| Destruction of terrestrial vegetation                                 |
| Presence of litter and debris                                        |
| Wracking                                                             |
| Vegetation matted down; bent, or absent                              |
| Sediment sorting                                                     |
| Leaf litter disturbed or washed away                                  |
| Scour                                                                |
| Deposition                                                           |
| Multiple observed flow events                                        |
| Bed and banks                                                        |
| Water staining                                                       |
| X X                                                                   |

<table>
<thead>
<tr>
<th>17. Waters Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPWNN</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>TNW</td>
</tr>
<tr>
<td>NRPW</td>
</tr>
<tr>
<td>TNWW</td>
</tr>
<tr>
<td>ISOLATE</td>
</tr>
<tr>
<td>RPW</td>
</tr>
<tr>
<td>UPLAND</td>
</tr>
<tr>
<td>RPWWD</td>
</tr>
<tr>
<td>TNWRPW</td>
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</table>

<table>
<thead>
<tr>
<th>18. Observed Fauna:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invertebrates:</td>
</tr>
<tr>
<td>butterflies</td>
</tr>
<tr>
<td>Birds</td>
</tr>
<tr>
<td>Mammals</td>
</tr>
<tr>
<td>Reptile/Amphians</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>Fish</td>
</tr>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>19. Additional Comments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>located on York Rd along RR</td>
</tr>
</tbody>
</table>

**Datasheet entered by:**  
**Last Revised:** 09/25
### Stream Characterization

**Date:** 9/24/2019  **Time:** 9:45am  **Site:** ORD  **County:** Cook

<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Stream Name: Ditch 22</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field ID:</strong> Stream/Ditch</td>
<td><strong>Stream Name:</strong> Ditch 22</td>
</tr>
<tr>
<td>Site:</td>
<td>County:</td>
</tr>
<tr>
<td>Field ID:</td>
<td>Investigators: CBM, BJH</td>
</tr>
</tbody>
</table>

#### Weather in the past 24 hours:

- Storm (heavy rain) Overcast
- Rain (steady rain) X Clear/Sunny
- Showers (intermittent rain)

#### Weather in the past 24 hours:

- Storm (heavy rain) Overcast
- Rain (steady rain) X Clear/Sunny
- Showers (intermittent rain)

#### Stream Flow Regime:

- **EPHEMERAL**
- **PERENNIAL**
- **INTERMITTENT**

#### Stream Habitats Present:

- *Pool(s)*: Run(s)
- *Riffles(s)*: N/A

#### Water Appearance:

- Sewage
- Milky
- Foamy
- Turbid
- Light brown
- Organic
- Oily sheen
- Rotten eggs
- Others:

#### Water Odor:

- Orange
- None
- Greenish
- Other:

#### Storm (heavy rain) Overcast INTERMITTENT clear sewage Rain (steady rain) X Clear/Sunny 4. Stream habitats present: milky chlorine Showers (intermittent rain) Pool(s) Run(s) foamy fishy Riffles(s) X N/A turbid rotten eggs dark brown organic other: oily sheen X none

#### Nature of the particles in the stream bottom:

- Orange
- None
- Little
- Some
- Most
- Other:

#### Approximate depth of water in stream:

- N/A

#### Approximate width of water flow:

- 10-12 ft

#### Approximate depth of pool(s):

- N/A

#### Presence of naturally occurring organic material in stream:

- Unknown

#### Presence of logs or large woody debris in stream:

- None
- Occasional
- Plentiful

#### Facing upstream, does this stream have tree cover for 50 feet on the:

- Left side: no
- Right side: no

#### Facing upstream, does this stream have shrub cover for 50 feet on the:

- Left side: no
- Right side: no

#### Ordinary High Water Mark Determination

Check "P" if observed; Check "U" if used to determine OHWM

| Natural line impressed on the bank | Shelving |
| Changes in the character of soil | Destruction of terrestrial vegetation |
| Presence of litter and debris | Wracking |
| Vegetation matted down; bent, or absent | Sediment sorting |
| Leaf litter disturbed or washed away | Scour |
| Deposition | Multiple observed flow events |
| Bed and banks | Water staining |
| Change in plant community |

#### Waters Type:

- DELINEATE
- TNW
- RP
- RPW
- RPWW
- RPWWD
- TNWW
- UPLAND
- ISOLATE
- NRPPW
- NRPW
- RPWWN
- RPWWN

#### Observed Fauna (make note of wildlife deterrents such as bird wires):

- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

#### Additional Comments:

- roadside ditch; drop inlets drain the feature
Stream Characterization

<table>
<thead>
<tr>
<th>Field ID: Ditch 23</th>
<th>Stream Name: Ditch 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date: 9/26/2019</td>
<td>Time: 11:00 AM</td>
</tr>
<tr>
<td>County: Cook</td>
<td></td>
</tr>
</tbody>
</table>

Weather

- Weather in the past 24 hours:
  - Storm (heavy rain): Overcast
  - Rain (steady rain): Clear/Sunny
  - Showers (intermittent rain): N/A

Stream Condition

- Storm Characterization Date: X
- Time: X
- Site: X
- County: X
- Field ID: X
- Stream/Ditch: X
- Stream Name: X
- Investigators: X

- Weather in the past 24 hours:
  - X
  - Circle flow regime: EPHEMERAL PERENNIAL INTERMITTENT

- Water Appearance: 10.
- Water Odor: X
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain): N/A
- Other: N/A

- Water Velocity: X
- Stream Velocity: slow
- Nature of the particles in the stream bottom: bedrock
- Approximate depth of pool(s): Unknown
- Presence of naturally occurring organic material in stream: X
- Presence of logs or large woody debris in stream: None
- Stream bank: X
- Understory: Vertical/undercut
- Contours: Steeply sloping (>30°)
- Shape of the channel: X
- What is the % cover of shrubs per side of the stream?: X
- What is the % cover of trees per side of the stream?: X
- What is the % cover of understory per side of the stream?: X
- Facing upstream, does this stream have tree cover for 50 feet on the: left side no right side no
- Facing upstream, does this stream have shrub cover for 50 feet on the: left side no right side no

- Waters Type: RPWNN
- Waters Type: Delineate
- Waters Type: RPWW
- Waters Type: TNW
- Waters Type: TNWW
- Waters Type: ISOLATE
- Waters Type: UPLAND
- Waters Type: TNRRPW

- Ordinary High Water Mark Determination
- Check "P" if observed; Check "U" if used to determine OHWM
- Natural line impressed on the bank
- X
- Vertical/undercut
- X
- Multiple observed flow events
- X
- scour
- Deposition
- X
- Sediment sorting
- X
- Leaf litter disturbed or washed away
- X
- Water staining
- X
- Change in plant community

- Waters Type: RPWNN
- Waters Type: Delineate
- Waters Type: RPWW
- Waters Type: TNW
- Waters Type: TNWW
- Waters Type: ISOLATE
- Waters Type: UPLAND
- Waters Type: TNRRPW

- Observed Fauna (make note of wildlife deterrents such as bird wires)
- List
- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

- Additional Comments
- Ditch continues into construction area; not delineated

Datasheet entered by: Last Revised: 09/25
### Stream Characterization

<table>
<thead>
<tr>
<th>Date: 9/25/2019</th>
<th>Time: 5:10pm</th>
<th>Site: ORD</th>
<th>County: Cook</th>
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</thead>
<tbody>
<tr>
<td>Field ID: Ditch 24</td>
<td>Stream Name: Ditch</td>
<td>Investigators: CBM, BJH</td>
<td></td>
</tr>
</tbody>
</table>

#### Weather
- Storm (heavy rain) Overcast
- Rain (steady rain) X Clear/Sunny
- Showers (intermittent rain) 

#### Field ID
- Storm Characterization Date: 
- Time: Site: County: 
- Field ID: Stream/Ditch

#### Stream Characteristics

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Storm (heavy rain)</th>
<th>Overcast</th>
<th>Rain (steady rain)</th>
<th>X Clear/Sunny</th>
<th>Showers (intermittent rain)</th>
</tr>
</thead>
</table>

#### Stream Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPHEMERAL PERENNIAL INTERMITTENT</td>
<td></td>
</tr>
<tr>
<td>Pool(s)</td>
<td>Run(s)</td>
</tr>
<tr>
<td>Turbid</td>
<td>X N/A</td>
</tr>
<tr>
<td>X N/A</td>
<td>None</td>
</tr>
<tr>
<td>0-3 inches</td>
<td>6 ft</td>
</tr>
<tr>
<td>None</td>
<td>Little</td>
</tr>
<tr>
<td>1 ft</td>
<td>15 ft</td>
</tr>
<tr>
<td>1 ft</td>
<td>15 ft</td>
</tr>
<tr>
<td>None</td>
<td>Occasional</td>
</tr>
<tr>
<td>0%</td>
<td>50%</td>
</tr>
<tr>
<td>25%</td>
<td>X Other - 5%</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Plant Species Adjacent to Stream
- Salix sp.

#### Ordinary High Water Mark Determination
- Check "P" if observed; Check "U" if used to determine OHWM

#### Waters Type
- DELINEATE
- RPWWN
- TNW
- TNPW
- TNP
- UPLAND
- RPWWD
- TNRPW

#### Observed Fauna
- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

#### Additional Comments
- Ditch 24 CBM, BJH
- Left Mud, silt, or sand in or entering the stream
- Right Mud, silt, or sand in or entering the stream

#### Last Revised: 09/25
Stream Characterization

Date: 9/25/2019  
Time: 3:00pm  
Site: ORD  
County: Cook

Field ID: Ditch 25

Stream Name: Ditch 25

Investigators: CBM, BJH

Weather in the past 24 hours:
- Storm (heavy rain)
- Rain (steady rain)
- Showers (intermittent rain)

1. Weather in the past 24 hours:
   - Overcast
   - Clear/Sunny
   - Intermittent
   - Rain (steady rain)
   - Clear/Sunny
   - Showers (intermittent rain)

2. Plant Species Adjacent to stream (scientific name):
   - Phragmites australis
   - Typha angustifolia
   - Andropogon glomeratus
   - Digitaria cognata
   - Persicaria maculatum

3. Facing upstream, does this stream have tree cover for 50 feet on the:
   - left side: no
   - right side: yes

4. Facing upstream, does this stream have shrub cover for 50 feet on the:
   - left side: no
   - right side: no

5. Water Appearance:
   - clear
   - milky
   - foamy
   - turbid
   - light brown
   - dark brown
   - organic
   - oily sheen
   - orange
   - greenish
   - other:

6. Nature of the particles in the stream bottom:
   - None
   - Little
   - Some
   - Most
   - N/A

7. Presence of naturally occurring organic material in stream:
   - None
   - Occasional
   - X
   - Plentiful

8. Ordinary High Water Mark Determination
   - Check "P" if observed; Check "U" if used to determine OHWM
   - Natural line impressed on the bank
   - Shelving
   - Changes in the character of soil
   - Destruction of terrestrial vegetation
   - Presence of litter and debris
   - Wracking
   - Vegetation matted down; bent, or absent
   - Sediment sorting
   - Leaf litter disturbed or washed away
   - Scour
   - Deposition
   - Multiple observed flow events
   - Bed and banks
   - Water staining
   - X
   - X
   - X
   - X
   - X
   - X
   - X

9. Water Odor:
   - sewage
   - chlorine
   - fishy
   - rotten eggs
   - other:

10. Water Odor:
    - sewage
    - chlorine
    - fishy
    - rotten eggs
    - other:

11. Presence of logs or large woody debris in stream:
    - X
    - None
    - Occasional
    - Plentiful

12. Pick the category that best describes the extent to which vegetation shades the stream:
    - 0%
    - 50%
    - 100%
    - 25%
    - 75%
    - X
    - other - 10%

13. Pick the description that best fits the stream bank and the channel (facing upstream):
    - a) Stream bank:
      - Left
      - Vertical/undercut
      - Right
      - Steeply sloping (>30°)
      - X
      - Gradual/No slope (<30°)

    - b) Shape of the channel:
      - Narrow
      - Deep
      - Wide
      - Deep

14. Describe the streamside cover. Check "P" if present, "C" if common
    a) Along the water's edge and stream bank: for 50 feet on the:
       - Left
       - Right
       - Pavement, Structures, Gabions

    - b) From the top of the streambank out to 50 feet:
       - Left
       - Right

15. In the vicinity of the stream, Check "P" if present, "C" if common:
    - Left
    - Right

16. Ordinary High Water Mark Determination
    - Check "P" if observed; Check "U" if used to determine OHWM

17. Waters Type
    - DELINEATE
    - NRPW
    - NRPWW
    - TNWW
    - ISOLATE
    - RPW
    - UPLAND
    - RPWW
    - TNWRPW

18. Observed Fauna (make note of wildlife deterrents such as bird wires)
    - Invertebrates
    - Birds
    - Mammals
    - Reptile/Amphians
    - Fish

19. Additional Comments
    - Between RR and York Rd.; flows south
    - 3 x 30" culverts present under RR; road culvert at north end

Datasheet entered by: Last Revised: 09/25
<table>
<thead>
<tr>
<th>Stream Characterization</th>
<th>Date: 8/30/2019</th>
<th>Time: 11:00 AM</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
</table>

**Field ID:** Stream/Ditch

**Stream Name:** Ditch 26

**Investigators:** CBM, BJH

**County:** Cook

---

### Weather in the past 24 hours:
- Overcast
- Clear/Sunny

### Circle flow regime:
- EPHEMERAL
- PERENNIAL
- INTERMITTENT

### Storms (heavy rain):
- N/A

### Rain (steady rain):
- X

### Showers (intermittent rain):
- N/A

---

### 1. Approximate depth of water in stream:
- N/A

### 2. Plant Species Adjacent to stream (scientific name):
- Populus deltoides
- Salix sp.

### 3. Facing upstream, does this stream have tree cover for 50 feet on the:
- Left side yes
- Right side yes

### 4. Water Appearance:
- Clear
- Yellow
- Green/Algae
- Green
- Green sulfur
- Purple
- Orange
tun

### 5. Stream Velocity:
- Fast
- Moderate
- Slow
- N/A

### 6. Nature of the particles in the stream bottom:
- Silt/clay/mud
- Sand
- Gravel
- Cobbles (2-10"
- Boulders (> 10"
- Bedrock
- None
- Little
- Some
- Most
- N/A

### 7. Presence of naturally occurring organic material in stream:
- None
- Occasional
- Plentiful
- N/A

### 8. Facing upstream, does this stream have shrub cover for 50 feet on the:
- Left side yes
- Right side yes

### 9. Water Odor:
- Clear
- Yellow
- Green/Algae
- Green
- Green sulfur
- Purple
- Orange
tun

### 10. Presence of logs or large woody debris in stream:
- None
- Occasional
- Plentiful

### 11. Ordinary High Water Mark Determination
- Natural line impressed on the bank
- Shelving
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- Change in plant community

**Observed Fauna (make note of wildlife deterrents such as bird wires):**
- X

### Additional Comments:
- Ditch is maintained by brush clearing/cutting.

---

**Datasheet entered by:** Last Revised: 09/25
Stream Characterization

<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Date: 9/17/2019</th>
<th>Time: 2:30pm</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stream Name: Ditch 27</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Investigators: CBM, BJH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain): Sun

1. a) Approximate depth of water in stream:
   - Left: 2-10 ft
   - Right: 1-6 ft

   b) Approximate width of water flow:
   - N/A

   c) Approximate width of stream:
   - (from top of bank to top of bank): N/A

   d) Approximate height of banks (channel depth):
   - Left: 2-10 ft
   - Right: 1-6 ft

5. Circle flow regime:
   - EPHEMERAL
   - INTERMITTENT
   - PERENNIAL

6. Stream Velocity:
   - Last
   - Moderate
   - Slow
   - N/A

7. Presence of naturally occurring organic material in stream:
   - Unknown

8. Facing upstream, does this stream have tree cover for 50 feet on the:
   - Left side: no
   - Right side: no

   What is the % cover of trees per side of the stream?
   - Left side: 0%
   - Right side: 0%

9. Water Appearance:
   - Clear
   - Milky
   - Chlorine

10. Water Odor:
    - Sewage
    - Foamy
    - Fishy
    - Light brown
    - Organic
    - Dark brown
    - Rotten eggs
    - Oily sheen
    - None

11. Presence of logs or large woody debris in stream:
    - X None
    - Occasional
    - Plentiful

12. Pick the category that best describes the extent to which vegetation shades the stream:
    - 0% None
    - 25% Occasional
    - 50% Plentiful
    - 100% Other

13. Pick the description that best fits the stream bank and the channel (facing upstream):
    - a) Stream bank:
      - Vertical/undercut
    - b) Shape of the channel:
      - Steeply sloping (>30°)
      - Gradual/No slope (<30°)

14. Describe the streamside cover. Check "P" if present, "C" if common:
    a) Along the water's edge and stream bank only (facing upstream):
      - Trees:
        - P
      - Bushes, Shrubs:
        - P
      - Tall grasses, forbs:
        - P
      - Lawn, maintained landscape:
        - P
      - Boulders/Rocks/Rip Rap:
        - P
      - Gravel/Sand:
        - P
      - Bare Soil:
        - P
      - Pavement, Structures, Gabions:
        - P

    b) From the top of the streambank out to 50 feet:
      - Trees:
        - P
      - Bushes, Shrubs:
        - P
      - Tall grasses, forbs:
        - P
      - Lawn, maintained landscape:
        - P
      - Boulders/Rocks:
        - P
      - Gravel/Sand:
        - P
      - Bare Soil:
        - P
      - Pavement, Structures:
        - P

15. In the vicinity of the stream, Check "P" if present, "C" if common:
    - Natural Streamside plant cover degraded
    - Banks collapsed/eroded
    - Garbage/junk adjacent to the stream
    - Foam or sheen on bank
    - Mud, silt, or sand in or entering the stream
    - Garbage/junk in the stream
    - Yard waste on bank (clippings, leaves, etc.)
    - Livestock in or with unrestricted access
    - Actively discharging pipes
    - Other pipes
    - Ditches entering stream

16. Ordinary High Water Mark Determination

    Check "P" if observed; Check "U" if used to determine OHWM

    a) Along the water's edge and stream bank only (facing upstream):
      - Natural line impressed on the bank
      - Shelving
      - Changes in the character of soil
      - Destruction of terrestrial vegetation
      - Presence of litter and debris
      - Wracking
      - Vegetation matted down; bent, or absent
      - Sediment sorting
      - Leaf litter disturbed or washed away
      - Scour
      - Deposition
      - Multiple observed flow events
      - Bed and banks
      - Water staining
      - Change in plant community

    b) From the top of the streambank out to 50 feet:
      - Natural line impressed on the bank
      - Shelving
      - Changes in the character of soil
      - Destruction of terrestrial vegetation
      - Presence of litter and debris
      - Wracking
      - Vegetation matted down; bent, or absent
      - Sediment sorting
      - Leaf litter disturbed or washed away
      - Scour
      - Deposition
      - Multiple observed flow events
      - Bed and banks
      - Water staining
      - Change in plant community

    c) From the top of the streambank out to 50 feet:
      - Natural line impressed on the bank
      - Shelving
      - Changes in the character of soil
      - Destruction of terrestrial vegetation
      - Presence of litter and debris
      - Wracking
      - Vegetation matted down; bent, or absent
      - Sediment sorting
      - Leaf litter disturbed or washed away
      - Scour
      - Deposition
      - Multiple observed flow events
      - Bed and banks
      - Water staining
      - Change in plant community

17. Waters Type:
    - DELINEATE
    - TNW
    - TNPW
    - NRPW
    - TNNW
    - UPLAND
    - RPWW
    - RPW

18. Observed Fauna (make note of wildlife deterrents such as bird wires)
    - Invertebrates: grasshoppers
    - Birds
    - Mammals
    - Reptile/Amphians
    - Fish

19. Additional Comments
    - Standing water further east. Runoff from AMC and batch plant.
    - Area is mown infrequently. Extends almost to Lawrence St. Input and output from and to culverts.

Datsheet entered by: Last Revised: 09/25
Stream Characterization

Field ID: Stream/Ditch

Date: 9/17/2019  Time: 3:15pm  Site: ORD  County: Cook

Stream Name: Ditch 28

Investigators: CBM, BJH

Weather in the past 24 hours:

- Storm (heavy rain) Overcast
- Rain (steady rain) X Clear/Sunny
- Showers (intermittent rain)

1. Approximate depth of water in stream:
   - N/A
   - 3-4 inches

2. Approximate width of flow:
   - N/A
   - 8 ft

3. Approximate width of stream:
   - N/A
   - 12-15 ft

4. Nature of the particles in the stream bottom:
   - N/A
   - sand
   - gravel
   - cobbles (2 - 10" diam.)
   - boulders (> 10" diam.)
   - bedrock

5. Presence of naturally occurring organic material in stream:
   - Unknown
   - X None
   - Little
   - Some
   - Most

6. Presence of logs or large woody debris in stream:
   - None
   - Occasional
   - Plentiful

7. Facing upstream, does this stream have tree cover for 50 feet on the:
   - Left side
   - Right side

8. Facing upstream, does this stream have shrub cover for 50 feet on the:
   - Left side
   - Right side

9. Water Appearance:
   - Clear
   - Milky
   - Chlorine
   - Foamy
   - Fishy
   - Turbid
   - Light brown
   - Organic
   - Clayey
   - N/A
   - Oily sheen
   - None

10. Water Odor:
    - X sewage
    - X rotten eggs
    - Other:

11. Presence of logs or large woody debris in stream:
    - None
    - Occasional
    - Plentiful

12. Pick the category that best describes the extent to which vegetation shades the stream:
    - X 0%
    - X 50%
    - 100%
    - 25%
    - 75%
    - Other - ___%

13. Pick the description that best fits the stream bank and the channel (facing upstream):
    - a) Stream bank:
      - Vertical/undercut
      - Steeply sloping (>30°)
    - b) Shape of the channel:
      - X Gradual/No slope (<30°)

14. Describe the streamside cover. Check "P" if present, "C" if common:
    - a) Along the water's edge and stream bank onl y (facing upstream):
      - X Natural Streamside plant cover degraded
      - X Banks collapsed/eroded
      - X Garbage/junk adjacent to the stream
      - X Foam or sheen on bank
      - X Mud, silt, or sand in or entering the stream
      - X Garbage/junk in the stream
      - X Yard waste on bank (clippings, leaves, etc.)
      - X Livestock in or with unrestricted access
      - X Actively discharging pipes
      - X Other pipes
      - X Ditches entering stream

    - b) From the top of the streambank out to 50 feet:
      - X Natural Streamside plant cover degraded
      - X Banks collapsed/eroded
      - X Garbage/junk adjacent to the stream
      - X Foam or sheen on bank
      - X Mud, silt, or sand in or entering the stream
      - X Garbage/junk in the stream
      - X Yard waste on bank (clippings, leaves, etc.)
      - X Livestock in or with unrestricted access
      - X Actively discharging pipes
      - X Other pipes
      - X Ditches entering stream

15. In the vicinity of the stream, Check "P" if present, "C" if common:
    - X Natural Streamside plant cover degraded
    - X Banks collapsed/eroded
    - X Garbage/junk adjacent to the stream
    - X Foam or sheen on bank
    - X Mud, silt, or sand in or entering the stream
    - X Garbage/junk in the stream
    - X Yard waste on bank (clippings, leaves, etc.)
    - X Livestock in or with unrestricted access
    - X Actively discharging pipes
    - X Other pipes
    - X Ditches entering stream

16. Ordinary High Water Mark Determination
    - Check "P" if observed; Check "U" if used to determine OHWM
    - X Natural line impressed on the bank
    - X Shelving
    - X Changes in the character of soil
    - X Destruction of terrestrial vegetation
    - X Presence of litter and debris
    - X Wracking
    - X Vegetation matted down; bent, or absent
    - X Sediment sorting
    - X Leaf litter disturbed or washed away
    - X Scour
    - X Deposition
    - X Multiple observed flow events
    - X Bed and banks
    - X Water staining
    - X Change in plant community

17. Waters Type
    - DELINEATE
    - RPWWN
    - TNW
    - NRPWW
    - TNWW
    - ISOULATE
    - RPW
    - UPLAND
    - RPWWD
    - TNWRP

18. Observed Fauna
    - List
      - Invertebrates
      - Birds
      - Mammals
      - Reptile/Amphians
      - Fish

19. Additional Comments
    - Two sections separated by gravel access road to equipment shed.

Datasheet entered by: Last Revised: 09/25
Stream Characterization

<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Stream Name: Ditch 29</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date: 9/17/2019</td>
<td>Time: 3:30pm</td>
</tr>
<tr>
<td>Site: ORD</td>
<td>County: Cook</td>
</tr>
<tr>
<td>Investors: CBM, BJH</td>
<td></td>
</tr>
</tbody>
</table>

Weather in the past 24 hours:
- Overcast
- Clear/Sunny
- Storm (heavy rain)
- Rain (steady rain)
- Showers (intermittent rain)

3. Circle flow regime:
- Ephemeral
- Intermittent
- Perennial

4. Stream habitats present:
- Pool(s)
- Run(s)
- riffles(s)

5. Approximate depth of water in stream:
- N/A
- 4 inches

6. Stream Velocity:
- fast
- moderate
- slow
- N/A

7. Presence of naturally occurring organic material in stream:
- None
- Little
- Some
- Most

8. Facing upstream, does this stream have tree cover for 50 feet on the:
- left side
- right side
- X

9. Water Appearance:
- clear
- milky
- foamy
- turbid
- light brown
- dark brown
- organic
- oily sheen
- X

10. Water Odor:
- sewage
- chlorine
- fishy
- rotten eggs
- none

11. Presence of logs or large woody debris in stream:
- X
- None
- Occasional
- Plentiful

12. Pick the category that best describes the extent to which vegetation shades the stream:
- X
- 0%
- 25%
- 50%
- 75%
- 100%
- Other - _____%

13. Pick the description that best fits the stream bank and the channel (facing upstream):
- X
- Vertical/undercut
- Steeply sloping (>30°)
- Gradual/No slope (<30°)

14. Describe the streamside cover. Check "P" if present, "C" if common:

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>C</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

15. In the vicinity of the stream, Check "P" if present, "C" if common:

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>C</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

16. Ordinary High Water Mark Determination

17. Waters Type

18. Observed Fauna (make note of wildlife deterrents such as bird wires)

19. Additional Comments

Datasheet entered by: Last Revised: 09/25
Stream Characterization

Field ID: Stream/Ditch: Stream Name: Site: County: Date:  8/13/2019 Time: 4:15pm Site: ORD County: Cook

1. Storm (heavy rain): X Overcast
   Rain (steady rain): Clear/Sunny
   Showers (intermittent rain): X Intermittent

2. Approximate depth of water in stream:
   a) Approximate depth of water in stream:
   X 3-4 ft
   b) Approximate width of water flow:
   X 35 ft
   c) Approximate width of stream:
   X (from top of bank to top of bank) 65-70 ft
   d) Approximate height of banks (channel depth):
   X 1-2 ft
   e) Approximate depth of pool(s):
   X Unknown

3. Storm Velocity:
   a) Approximate depth of water in stream:
   X 5 ft
   b) Approximate width of water flow:
   X 45 ft
   c) Approximate width of stream:
   X (from top of bank to top of bank) 70-80 ft
   d) Approximate height of banks (channel depth):
   X 1-2 ft
   e) Approximate depth of pool(s):
   X Unknown

4.  The stream velocity was moderate.
   a) Stream flow regime:
   X EPHEMERAL
   X PERENNIAL
   X INTERMITTENT
   b) Water appearance:
   X clear
   X light brown
   X dark brown
   X milky
   X chlorine
   X foamy
   X fishy
   X turbid
   X rotten
   X sewage
   X orange
   X greenish

5. Presence of naturally occurring organic material in stream:
   X Unknown
   X 0%
   X 50%
   X 100%
   X None
   X Occasional
   X Plentiful

6. Presence of logs or large woody debris in stream:
   X None
   X Occasional
   X Plentiful

7. Presence of logs or large woody debris in stream:
   X None
   X Occasional
   X Plentiful

8. Facing upstream, does this stream have tree cover for 50 feet on the:
   a) Stream bank:
   X 0%
   X 1%
   X 25%
   X 75%
   X 100%
   b) Shape of the channel:
   X Narrow, Deep
   X Wide, Deep

9. Water Appearance:
   X clear
   X light brown
   X dark brown
   X milky
   X chlorine
   X foamy
   X fishy
   X turbid
   X rotten
   X sewage
   X orange
   X greenish

10. Water Odor:
    X sewage
    X chlorine
    X foamy
    X fishy
    X turbid
    X rotten
    X sewage
    X orange
    X greenish

11. Presence of logs or large woody debris in stream:
    X None
    X Occasional
    X Plentiful

12. Presence of logs or large woody debris in stream:
    X None
    X Occasional
    X Plentiful

13. Presence of logs or large woody debris in stream:
    X None
    X Occasional
    X Plentiful

14. Ordinary High Water Mark Determination
    a) Along the water's edge and stream bank only (facing upstream):
       X Natural line impressed on the bank
       X Shelving
       X Changes in the character of soil
       X Destruction of terrestrial vegetation
       X Presence of litter and debris
       X Wracking
       X Vegetation matted down; bent, or absent
       X Sediment sorting
       X Leaf litter disturbed or washed away
       X Scour
       X Deposition
       X Multiple observed flow events
       X Bed and banks
       X Water staining
       X Change in plant community
    b) From the top of the streambank out to 50 feet:
       X Natural line impressed on the bank
       X Shelving
       X Changes in the character of soil
       X Destruction of terrestrial vegetation
       X Presence of litter and debris
       X Wracking
       X Vegetation matted down; bent, or absent
       X Sediment sorting
       X Leaf litter disturbed or washed away
       X Scour
       X Deposition
       X Multiple observed flow events
       X Bed and banks
       X Water staining
       X Change in plant community

15. In the vicinity of the stream, Check "P" if present, "C" if common:
    a) Natural streamside plant cover degraded
    b) Banks collapsed/eroded
    c) Garbage/junk adjacent to the stream
    d) Foam on sheen on bank
    e) Mud, silt, or sand in or entering the stream
    f) Garbage/junk in the stream
    g) Yard waste on bank (clippings, leaves, etc.)
    h) Livestock in or with unrestricted access
    i) Actively discharging pipes
    j) Other pipes
    k) Ditches entering stream

16. Observed Fauna (make note of wildlife deterrents such as bird wires)
    a) Invertebrates
    b) Birds
    c) Mammals
    d) Reptile/Amphians
    e) Fish

17. Waters Type
    a) DELINEATE
    b) RPWN
    c) TNW
    d) NRPW
    e) TNWW
    f) ISOLATE
    g) RPW
    h) UPLAND
    i) RPWW
    j) TNWPD

18. Additional Comments
    a) List
    b) X Invertebrates
    c) X Birds
    d) X Mammals
    e) X Reptile/Amphians
    f) X Fish

19. Datasheet entered by:
    Last Revised: 09/25
**Stream Characterization**

**Field ID:** Stream/Ditch

**Date:** 9/25/2019  **Time:** 10:55am  **Site:** ORD  **County:** Cook

**Stream Name:** Ditch 31  **Investigators:** CBM, BJH

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Stream flow regime:</th>
<th>Weather on day:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain) Overcast</td>
<td>INTERMITTENT</td>
<td></td>
</tr>
<tr>
<td>Rain (steady rain) Clear/Sunny</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stream habitats present:</th>
<th>Circle flow regime:</th>
<th>Water Appearance:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pool(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run(s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Riffles(s)</td>
<td>X N/A</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water Odor:</th>
<th>Rain (steady rain)</th>
<th>Clear/Sunny</th>
</tr>
</thead>
<tbody>
<tr>
<td>sewage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>milky</td>
<td></td>
<td></td>
</tr>
<tr>
<td>chlorine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>foamy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>fishy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>turbid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>rotten eggs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>light brown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>organic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>oily</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sheen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>none</td>
<td></td>
<td></td>
</tr>
<tr>
<td>greenish</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stream Velocity:</th>
<th>Nature of the particles in the stream bottom:</th>
</tr>
</thead>
<tbody>
<tr>
<td>fast</td>
<td>N/A</td>
</tr>
<tr>
<td>moderate</td>
<td>sand</td>
</tr>
<tr>
<td>slow</td>
<td>gravel</td>
</tr>
<tr>
<td>N/A</td>
<td>X</td>
</tr>
<tr>
<td>N/A</td>
<td>cobbles (2 - 10&quot; diam.)</td>
</tr>
<tr>
<td>X</td>
<td>boulders (&gt; 10&quot; diam.)</td>
</tr>
<tr>
<td>X</td>
<td>bedrock</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Presence of naturally occurring organic material in stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
</tr>
<tr>
<td>Occasional</td>
</tr>
<tr>
<td>X Plentiful</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Presence of logs or large woody debris in stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X None</td>
</tr>
<tr>
<td>Occasional</td>
</tr>
<tr>
<td>Plentiful</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>What is the % cover of trees per side of the stream?:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X left side</td>
</tr>
<tr>
<td>X right side</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>What is the % cover of shrubs per side of the stream?:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X left side</td>
</tr>
<tr>
<td>X right side</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Facing upstream, does this stream have tree cover for 50 feet on the:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X left side</td>
</tr>
<tr>
<td>X right side</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Facing upstream, does this stream have shrub cover for 50 feet on the:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X left side</td>
</tr>
<tr>
<td>X right side</td>
</tr>
</tbody>
</table>

**Plant Species Adjacent to stream (scientific name):**

<table>
<thead>
<tr>
<th>Trees:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Understory:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Vertical/undercut</td>
</tr>
<tr>
<td>X Steeply sloping (&gt;30°)</td>
</tr>
<tr>
<td>X Gradual/No slope (&lt;30°)</td>
</tr>
</tbody>
</table>

**Facing upstream, does this stream have shrub cover for 50 feet on the:**

<table>
<thead>
<tr>
<th>What is the % cover of shrubs per side of the stream?:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X left side</td>
</tr>
<tr>
<td>X right side</td>
</tr>
</tbody>
</table>

**In the vicinity of the stream:**

<table>
<thead>
<tr>
<th>Natural Streamside plant cover degraded:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Banks collapsed/eroded:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Garbage/junk adjacent to the stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foam or sheen on bank:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mud, silt, or sand in or entering the stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yard waste on bank (clippings, leaves, etc.):</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Livestock in or with unrestricted access:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Actively discharging pipes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other pipes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ditches entering stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

**Observed Fauna:**

- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

<table>
<thead>
<tr>
<th>Waters Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELINEATE</td>
</tr>
<tr>
<td>TNW</td>
</tr>
<tr>
<td>TNWW</td>
</tr>
<tr>
<td>ISOLATE</td>
</tr>
<tr>
<td>RPW</td>
</tr>
<tr>
<td>RPWWD</td>
</tr>
<tr>
<td>X TNWPP</td>
</tr>
</tbody>
</table>

**Ordinary High Water Mark Determination:**

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bushes, Shrubs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X X</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tall grasses, forbs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lawn, maintained landscape</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boulders/Rocks/Rip Rap</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gravel/Sand</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bare Soil</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pavement, Structures, Gabions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Comments:**

- 24" culvert at east end and near intersection

**Datasheet entered by:**  Last Revised: 09/25
Stream Characterization

Date: 9/26 & 9/27  
Time: 6:00pm  
Site: ORD  
County: Cook  
Field ID: Stream/Ditch

1. Weather in the past 24 hours:
   - Storm (heavy rain)  
   - Rain (steady rain)  
   - Showers (intermittent rain)  

2. Field ID:
   - Stream/Ditch

3. Stream Name: Investigators:
   - Weather in the past 24 hours:
     - Storm (heavy rain) Overcast  
     - Rain (steady rain) X Clear/Sunny  
     - Showers (intermittent rain) X

4. Water Appearance:
   - Storm (heavy rain) Overcast INTERMITTENT clear sewage  
   - Rain (steady rain) X Clear/Sunny  
   - Showers (intermittent rain) Pool(s) Run(s) foamy fishy  
   - Other:
     - milky chlorine  
     - turbid rotten eggs  
     - oily sheen X none

5. Water Odor:
   - Storm (heavy rain) Overcast INTERMITTENT clear sewage  
   - Rain (steady rain) X Clear/Sunny  
   - Showers (intermittent rain) Pool(s) Run(s) foamy fishy  
   - Other:
     - milky chlorine  
     - turbid rotten eggs  
     - oily sheen X none

6. Stream Velocity:
   - fast moderate slow X N/A

7. Presence of naturally occurring organic material in stream:
   - None Occasional X Plentiful

8. Presence of logs or large woody debris in stream:
   - X None Occasional Plentiful

9. Water Temperature:
   - 0% X 50% 100% Other - _____%

10. Presence of logs or large woody debris in stream:
    - X None Occasional Plentiful

11. Presence of naturally occurring organic material in stream:
    - None Occasional X Plentiful

12. Presence of logs or large woody debris in stream:
    - X None Occasional Plentiful

13. Presence of solids or debris on the stream bottom:
    - None Occasional X Plentiful

14. Presence of naturally occurring organic material in stream:
    - None Occasional X Plentiful

15. Presence of naturally occurring organic material in stream:
    - None Occasional X Plentiful

16. Ordinary High Water Mark Determination

17. Waters Type
   - RPWNN  
   - TNW  
   - TNWW  
   - RPW  
   - UPLAND  
   - RPWWD  
   - TNWRP

18. Observed Fauna
    - List:
      - Invertebrates: bees, butterflies  
      - Birds  
      - Mammals  
      - Reptile/Amphians  
      - Fish

19. Additional Comments
    - Tree removal and chipping along south side of ditch; flows east toward Mannheim Rd?

Datasheet entered by: Last Revised: 09/25
Stream Characterization

<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Date: 9/27/2019</th>
<th>Time: 9:30am</th>
<th>Site: ORD</th>
<th>County: Cook</th>
<th>Investigators: CBM, BJH</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Storm (heavy rain)</th>
<th>Overcast</th>
<th>Rain (steady rain)</th>
<th>X Clear/Sunny</th>
<th>Showers (intermittent rain)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Circle flow regime:</th>
<th>Ephemeral</th>
<th>Perennial</th>
<th>Intermittent</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Stream Name:</th>
<th>Investigators:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Water Appearance:</th>
<th>Clear</th>
<th>Milky</th>
<th>Foamy</th>
<th>Flisy</th>
<th>T urbid</th>
<th>Light Brown</th>
<th>Dark Brown</th>
<th>Organic</th>
<th>Oily Sheen</th>
<th>None</th>
<th>Other:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Water Odor:</th>
<th>Sewage</th>
<th>Chlorine</th>
<th>Rotten Eggs</th>
<th>Organic</th>
<th>Other:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>1. a) Approximate depth of water in stream:</th>
<th>2 inches</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>b) Approximate width of water flow:</th>
<th>6 ft</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>c) Approximate width of stream:</th>
<th>Silt/Clay/Mud</th>
<th>Sand</th>
<th>Gravel</th>
<th>Bedrock</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>d) Approximate height of banks (channel depth):</th>
<th>Left 6 ft</th>
<th>Right 16 ft</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>e) Approximate depth of pool(s):</th>
<th>N/A</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>2. Plant Species Adjacent to stream (scientific name):</th>
<th>Rhamnus cathartica</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Understory:</th>
<th>Solidago sempervirens, Typha angustifolia</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Facing upstream, does this stream have tree cover for 50 feet on the:</th>
<th>Left side</th>
<th>Right side</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>What is the % cover of trees per side of the stream?</th>
<th>Left side 50</th>
<th>Right side 0</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>a) Stream bank:</th>
<th>Vertical/undercut</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>b) Shape of the channel:</th>
<th>Steeply sloping (&gt;30°)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Facing upstream, does this stream have shrub cover for 50 feet on the:</th>
<th>Left side</th>
<th>Right side</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>What is the % cover of shrubs per side of the stream?</th>
<th>Left side no</th>
<th>Right side no</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>a) Along the water’s edge and stream bank only (facing upstream):</th>
<th>Left</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>b) From the top of the streambank out to 50 feet:</th>
<th>Left</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Natural Streamside plant cover degraded</th>
<th>X</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Natural line impressed on the bank</th>
<th>U</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Waters Type</th>
<th>DELINEATE</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Waters Type</th>
<th>RPWWN</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Invertebrates</th>
<th>Bees, Butterflies</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Additional Comments</th>
<th>30&quot; culvert on left side discharging into ditch; 12&quot; side culvert on right</th>
</tr>
</thead>
</table>

Datasheet entered by: | Last Revised: 09/25
### Stream Characterization

**Field ID:** Stream/Ditch

- **Stream Name:** Ditch 34
- **County:** Cook
- **Investigator:** CBM, BJH

#### Field Observations

| Date: 9/17/2019 | Time: 4:10pm | Site: ORD |

#### Weather

- **Storm (heavy rain):** Overcast
- **Rain (steady rain):** Clear/Sunny
- **Showers (intermittent rain):** N/A

#### Stream Characterization

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>3. Circle flow regime:</th>
<th>4. Stream habitats present:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain) Overcast</td>
<td>EPHEMERAL PERENNIAL</td>
<td>Pool(s) Run(s) N/A</td>
</tr>
<tr>
<td>Rain (steady rain) Clear/Sunny</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td></td>
<td>X/N/A</td>
</tr>
</tbody>
</table>

1. **Approximate depth of water in stream:** N/A
2. **Approximate width of water flow:** N/A
3. **Approximate width of stream:** 50 ft
4. **Approximate height of banks (channel depth):**
   - Left: 10 inches
   - Right: 12 inches
5. **Presence of naturally occurring organic material in stream:** Unknown
6. **Facing upstream, does this stream have tree cover for 50 feet on the:**
   - Left side: no
   - Right side: no
   - What is the % cover of trees per side of the stream?
     - Left side: 0%
     - Right side: 0%
7. **Facing upstream, does this stream have shrub cover for 50 feet on the:**
   - Left side: no
   - Right side: no
   - What is the % cover of shrubs per side of the stream?
     - Left side: N/A
     - Right side: N/A

#### Observations

- **Plant Species Adjacent to stream:**
  - Typha angustifolia, Phragmites australis,
  - Solidago sempervirens, Lythrum salicaria

- **Understory:**
  - Vertical/undercut

- **Facing upstream:**
  - Steeply sloping (>30°)
  - Gradual/No slope (<30°)

#### Water Quality

- **Stream/velocity:**
  - Last: moderate
  - Slow: N/A
- **Water appearance:**
  - X
- **Water odor:**
  - None

#### Additional Observations

- **Presence of logs or large woody debris in stream:** None
- **Presence of naturally occurring organic material in stream:** Occasional
- **Presence of logs or large woody debris in stream:**
- **Presence of naturally occurring organic material in stream:**
- **Presence of logs or large woody debris in stream:** Plentiful

#### Streamside Cover

- **Facing upstream:**
  - Natural line impressed on the bank
  - shelving
  - Changes in the character of soil
  - Presence of litter and debris
  - Wracking
  - Vegetation matted down; bent, or absent
  - Sediment sorting
  - Leaf litter disturbed or washed away
  - Scour
  - Deposition
  - Multiple observed flow events
  - Bed and banks
  - Water staining
  - Change in plant community

#### Waters Type

- **DELINEATE:**
  - RPWW
  - TNW
  - RPW
  - RPWWD

#### Observed Fauna

- **Birds:**
  - Invertebrates
  - Mammals
  - Reptile Amphibians
  - Fish

#### Additional Comments

- Phragmites dominated ditch behind parking lot.

#### Data Sheet Entered By:

- **Datasheet entered by:**
  - **Last Revised:** 09/25
<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Date: 9/19/2019</th>
<th>Time: 8:15am</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Stream Characterization</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
</table>

**Weather in the past 24 hours:**
- Storm (heavy rain) Overcast
- Rain (steady rain) X Clear/Sunny
- Showers (intermittent rain) X

**Stream Characterization**

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. a)</td>
<td>Approximate depth of water in stream:</td>
<td>6 inches</td>
</tr>
<tr>
<td>b)</td>
<td>Approximate width of water flow:</td>
<td>N/A</td>
</tr>
<tr>
<td>c)</td>
<td>Approximate width of stream: (from top of bank to top of bank)</td>
<td>15 ft</td>
</tr>
<tr>
<td>d)</td>
<td>Approximate height of banks (channel depth):</td>
<td>35 ft left, 35 ft right</td>
</tr>
<tr>
<td>e)</td>
<td>Approximate depth of pool(s):</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Stream Velocity:**
- Last moderate X slow X N/A

**Nature of the particles in the stream bottom:**
- Sand X gravel X cobble(s) (2 - 10" diam.) X bedrock

**Presence of naturally occurring organic material in stream:**
- Unknown Occasional X Plentiful

**Facing upstream, does this stream have tree cover for 50 feet on the:**
- Left side no X right side yes

**What is the % cover of trees per side of the stream?**
- Left side 0 % right side 0 %

**Facing upstream, does this stream have shrub cover for 50 feet on the:**
- Left side yes X right side yes

**What is the % cover of shrubs per side of the stream?**
- 55 % 5 %

**Ordinary High Water Mark Determination**

<table>
<thead>
<tr>
<th>Right</th>
<th>Left</th>
<th>P</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees</td>
<td>Bushes, Shrubs</td>
<td>X X X</td>
<td>X X</td>
</tr>
<tr>
<td>Tall grasses, forbs</td>
<td>Lawn, maintained landscape</td>
<td>X X</td>
<td>X X</td>
</tr>
<tr>
<td>Boulders/Rocks/Rip Rap</td>
<td>Gravel/Sand Bare Soil Pavement, Structures, Gabions</td>
<td>X X</td>
<td>X X</td>
</tr>
</tbody>
</table>

**In the vicinity of the stream:**
- Natural Streamside plant cover degraded X
- Banks collapsed/eroded X
- Garbage/junk adjacent to the stream X
- Foam or sheen on bank X
- Mud, silt, or sand in or entering the stream X
- Yard waste or on bank (clippings, leaves, etc.) X
- Livestock in or with unrestricted access X
- Actively discharging pipes X
- Other pipes Ditches entering stream

**Waters Type**
- DELINEATE RPWNN
- TNW NRPPW
- X UPLAND RPWWD
- X TNWRPW

**Observed Fauna**
- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

**Additional Comments**
- Flows toward Crystal Creek
### Stream Characterization

**Field ID:** Stream/Ditch  
**Stream Name:** Ditch 36  
**Site:** ORD  
**County:** Cook

#### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain): None

#### Stream Characterization Details:

1. **Approximate depth of water in stream:** N/A
2. **Approximate width of water flow:** 10 ft
3. **Approximate width of stream:** 15 ft (left), 15 ft (right)
4. **Presence of naturally occurring organic material in stream:** Unknown
5. **Presence of logs or large woody debris in stream:** None
6. **Facing upstream, does this stream have tree cover for 50 feet on the left side:** Yes
7. **Facing upstream, does this stream have shrub cover for 50 feet on the left side:** Yes
8. **Facing upstream, does this stream have tree cover for 50 feet on the right side:** Yes
9. **Facing upstream, does this stream have shrub cover for 50 feet on the right side:** Yes

#### Water Appearance:
- Clear
- Turbid
- Oily sheen
- None

#### Water Odor:
- Sewage
- Foamy
- Fishy
- Other

#### Water Odor:
- Milky
- Chlorine
- Rotten eggs
- None

#### Stream Habitat:
- Pool(s)
- Run(s)
- Pool(s)
- Run(s)
- Stream habitats present: X Intermittent

#### Stream Velocity:
- Fast
- Moderate
- Slow
- N/A

#### Nature of the particles in the stream bottom:
- Silt/Clay/Mud
- Sand
- Gravel
- Cobble (1-10"")
- Bedrock

#### Bedrock:
- X None
- Occasional
- Plentiful

#### Bedrock:
- X 75%
- 25%
- Other: 

#### Presence of logs or large woody debris in stream:
- None
- Occasional
- Plentiful

#### Presence of logs or large woody debris in stream:
- 0%
- 25%
- 50%
- 100%
- Other: 

#### Tree Cover:
- Left side: 15%
- Right side: 10%

#### Shrub Cover:
- Left side: 5%
- Right side: 5%

#### Ordinary High Water Mark Determination:

#### Datasheet entered by: Last Revised: 09/25
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Storm (heavy rain)</td>
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<tr>
<td>Rain (steady rain)</td>
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<tr>
<td>Showers (intermittent Rain)</td>
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<tr>
<td>Overcast</td>
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<td></td>
</tr>
<tr>
<td>Clear/Sunny</td>
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<tr>
<td>1. Approximate depth of water in stream:</td>
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<td></td>
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<tr>
<td>X N/A</td>
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<tr>
<td>2. Approximate width of water flow:</td>
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<tr>
<td>X N/A</td>
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<tr>
<td>3. Stream habitats present:</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Pool(s)</td>
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<tr>
<td>Run(s)</td>
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<tr>
<td>Riffles(s)</td>
<td></td>
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<tr>
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<tr>
<td>4. Stream Velocity:</td>
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<tr>
<td>5. Stream Velocity:</td>
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<td>X N/A</td>
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</tr>
<tr>
<td>6. Nature of the particles in the stream bottom:</td>
<td></td>
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<tr>
<td>sand</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>gravel</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>cobble(s) (2 - 10&quot; diam.)</td>
<td></td>
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<tr>
<td>gravel</td>
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<td></td>
</tr>
<tr>
<td>7. Presence of naturally occurring organic material in stream:</td>
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<tr>
<td>Unknown</td>
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<td>X</td>
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<tr>
<td>8. Facing upstream, does this stream have tree cover for 50 feet on the:</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>left side</td>
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</tr>
<tr>
<td>right side</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>9. Water Appearance:</td>
<td></td>
<td></td>
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<tr>
<td>clear</td>
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<tr>
<td>cloudy</td>
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<td></td>
</tr>
<tr>
<td>10. Water Odor:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>sewage</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>chlorine</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>fishy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>rotten eggs</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>11. Presence of logs or large woody debris in stream:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>X None</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Occasional</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Plentiful</td>
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<td>12. Pick the category that best describes the extent to which vegetation shades the stream:</td>
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<td>13. Pick the description that best fits the stream bank and the channel (facing upstream):</td>
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<td>b) Shape of the channel:</td>
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<td>14. Describe the streamside cover. Check &quot;P&quot; if present, &quot;C&quot; if common:</td>
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<td>Natural Streamside plant cover degraded</td>
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<td>Foam or sheen on bank</td>
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<td>16. Ordinary High Water Mark Determination</td>
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<td>Check &quot;P&quot; if observed; Check &quot;U&quot; if used to determine OHWM</td>
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<td>18. Observed Fauna (make note of wildlife deterrents such as bird wires)</td>
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**APPENDIX L**

**L-450**

**JUNE 2022**
<table>
<thead>
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<th>Date: 9/26/2019</th>
<th>Time: 5:05pm</th>
<th>Site: ORD</th>
<th>County: Cook</th>
<th>Field ID: Stream/Ditch</th>
<th>Ditch 38</th>
<th>Investigators: CBM, BJH</th>
</tr>
</thead>
</table>

### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain): X

### Stream Characterization

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
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<td>Field ID</td>
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<td>Site</td>
<td>County</td>
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<tr>
<td>Stream Name</td>
<td>Field ID</td>
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<td>Investigators</td>
<td>Weather in the past 24 hours</td>
</tr>
<tr>
<td>Storm (heavy rain)</td>
<td>Overcast</td>
</tr>
<tr>
<td>Rain (steady rain)</td>
<td>Clear/Sunny</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
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### Water Appearance

<table>
<thead>
<tr>
<th>Storm</th>
<th>Clear/Sunny</th>
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</thead>
<tbody>
<tr>
<td>Rain (steady rain)</td>
<td>Clear/Sunny</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td>Clear/Sunny</td>
</tr>
</tbody>
</table>

### Water Odor:
- Storm (heavy rain): Sewage
- Rain (steady rain): Fishy
- Showers (intermittent rain): Rotten eggs

### Stream Velocity:
- Storm (heavy rain): Fast
- Rain (steady rain): Moderate
- Showers (intermittent rain): Slow

### Presence of naturally occurring organic material in stream:
- Storm (heavy rain): None
- Rain (steady rain): None
- Showers (intermittent rain): None

### Presence of logs or large woody debris in stream:
- Storm (heavy rain): None
- Rain (steady rain): None
- Showers (intermittent rain): None

### Presence of naturally occurring organic material in stream:
- Storm (heavy rain): None
- Rain (steady rain): None
- Showers (intermittent rain): None

### Ordinary High Water Mark Determination

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees</td>
<td>P C</td>
</tr>
<tr>
<td>Bushes, Shrubs</td>
<td>X X</td>
</tr>
<tr>
<td>Tall grasses, forbs</td>
<td>X</td>
</tr>
<tr>
<td>Lawn, maintained landscape</td>
<td></td>
</tr>
<tr>
<td>Boulders/Rocks/Rip Rap</td>
<td></td>
</tr>
<tr>
<td>Gravel/Sand</td>
<td></td>
</tr>
<tr>
<td>Bare Soil</td>
<td></td>
</tr>
<tr>
<td>Pavement, Structures, Gabions</td>
<td></td>
</tr>
</tbody>
</table>

### Observations

<table>
<thead>
<tr>
<th>Observation</th>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Streamside plant cover degraded</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Banks collapsed/eroded</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garbage/junk adjacent to the stream</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foam or sheen on bank</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mud, silt, or sand in or entering the stream</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garbage/junk in the stream</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yard waste on bank (clippings, leaves, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Livestock in or with unrestricted access</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Actively discharging pipes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other pipes</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ditches entering stream</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

### Waters Type

<table>
<thead>
<tr>
<th>Waters Type</th>
<th>RPWNN</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELINEATE</td>
<td>NRPW</td>
</tr>
<tr>
<td>TNW</td>
<td>NRPWW</td>
</tr>
<tr>
<td>TNWW</td>
<td>ISOLATE</td>
</tr>
<tr>
<td>RPW</td>
<td>UPLAND</td>
</tr>
<tr>
<td>RPWW</td>
<td>TNRPW</td>
</tr>
</tbody>
</table>

### Invertebrates

- List

### Birds

- Invertebrates

### Mammals

- Birds

### Reptiles/Amphians

- Mammals

### Fish

- Reptiles/Amphians

### Additional Comments

- Fish

---

Datasheet entered by: Last Revised: 09/25

---

APPENDIX L

L-451

JUNE 2022
### Stream Characterization

<table>
<thead>
<tr>
<th>Field ID: Ditch 39</th>
<th>Stream Name: Ditch 39 CBM, BJH</th>
</tr>
</thead>
</table>

#### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): X Clear/Sunny
- Showers (intermittent rain): X

#### Stream Characteristics:

<table>
<thead>
<tr>
<th>Date: 8/30/2019</th>
<th>Time: 1:30pm</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. Circle flow regime:</td>
<td>EPHEMERAL PERENNIAL INTERMITTENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Stream habitats present:</td>
<td>Pool(s) Run(s) riffles(s) X N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Stream Velocity:</td>
<td>fast moderate slow X N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Approximate depth of water in stream:</td>
<td>4-6 inches</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Approximate width of water flow:</td>
<td>15 ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Approximate width of stream: (from top of bank to top of bank)</td>
<td>35 ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Water Appearance:</td>
<td>X Clear/Sunny</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Water Odor:</td>
<td>greenish X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Presence of logs or large woody debris in stream:</td>
<td>X None Occasional Plentiful</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Pick the category that best describes the extent to which vegetation shades the stream:</td>
<td>X 0% 50% 100%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 13. Pick the description that best fits the stream bank and the channel (facing upstream):
  a) Stream bank:
     - Vertical/undercut
     - Steeply sloping (>30°)
     - Gradual/No slope (<30°)
  b) Shape of the channel:
     - Narrow, Deep
     - Wide, Deep |
| 14. Describe the streamside cover. Check "P" if present, "C" if common:
  a) Along the water's edge and stream bank only (facing upstream):
     - Trees
     - Bushes, Shrubs
     - Tall grasses, forbs
     - Lawns, maintained landscape
     - Boulders/Rock/Rip Rap
     - Gravel/Sand
     - Bare Soil
     - Pavement, Structures, Gabions |
  b) From the top of the streambank out to 50 feet:
     - Trees
     - Bushes, Shrubs
     - Tall grasses, forbs
     - Lawns, maintained landscape
     - Boulders/Rocks
     - Gravel/Sand
     - Bare Soil
     - Pavement, Structures |
| 15. In the vicinity of the stream, Check "P" if present, "C" if common:
  - Natural Streamside plant cover degraded
  - Banks collapsed/eroded
  - Garbage/junk adjacent to the stream
  - Foam or sheen on bank
  - Mud, silt, or sand in or entering the stream
  - Garbage/junk in the stream
  - Yard waste on bank (clippings, leaves, etc.)
  - Livestock in or with unrestricted access
  - Actively discharging pipes
  - Other pipes
  - Ditches entering stream |

#### Ordinary High Water Mark Determination:

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
</table>
| Trees
| Bushes, Shrubs
| Tall grasses, forbs
| Lawn, maintained landscape
| Boulders/Rocks
| Gravel/Sand
| Pavement, Structures |
| X | X |

#### Waters Type:

<table>
<thead>
<tr>
<th>RPWWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>DELINEATE</td>
</tr>
<tr>
<td>TNW</td>
</tr>
<tr>
<td>NRP</td>
</tr>
<tr>
<td>NRPWW</td>
</tr>
<tr>
<td>TNWW</td>
</tr>
<tr>
<td>ISOLATE</td>
</tr>
<tr>
<td>RPW</td>
</tr>
<tr>
<td>UPLAND</td>
</tr>
<tr>
<td>RPWWD</td>
</tr>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

#### Watershed:

| Invertebrates |
| Birds |
| Mammals |
| Reptile Amphians |
| Fish |

#### Additional Comments:

Bird wire at entry point of Silver Creek

Datasheet entered by: CookORD

Page 1 of 1

APPENDIX L

ORD WDRS Delineation

JUNE 2022

L-452

Last Revised: 09/25
## Stream Characterization

### Field ID: Stream/Ditch

**Date:** 8/19/2019  **Time:** 3:30pm  **Site:** ORD  **County:** Cook  **Investigators:** CBM

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Storm (heavy rain)</th>
<th>Overcast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rain (steady rain)</td>
<td>Clear/Sunny</td>
<td></td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 1. a) Approximate depth of water in stream: | unknown |
| b) Approximate width of water flow: | N/A |
| c) Approximate width of stream: | 30 ft |
| d) Approximate height of banks (channel depth): | 1 ft left, 2 ft right |

| 6. Nature of the particles in the stream bottom: | None, Little, Some, Most |
| 7. Presence of naturally occurring organic material in stream: | Unknown, None, Occasional, Plentiful |
| 8. Facing upstream, does this stream have **tree** cover for 50 feet on the: | left side no, right side no |
| 9. Water Appearance: | clear, muddy, sandy, milky, chlorine |
| 10. Water Odor: | foamy, fishy, rotten, oily, none |

### Stream Habitats Present:

| 2. Plant Species Adjacent to stream (scientific name): |

| Phragmites australis, Lythrum salicaria, Dipsacus fullonum, Typha latifolia, Trifolium sp., Helianthus annuus |

### Ordnance High Water Mark Determination

#### Left

| 14. Describe the streamside cover. Check "P" if present, "C" if common: |

| Along the water's edge and stream bank only (facing upstream): |

| Trees, Bushes, Shrubs, Tall grasses, forbs, Lawn, maintained landscape, Boulders/Rocks/Rip Rap, Gravel/Sand, Bare Soil, Pavement, Structures, Gabions |

| 15. In the vicinity of the stream, Check "P" if present, "C" if common: |

| Natural Streamside plant cover degraded, Banks collapsed/eroded, Garbage/junk adjacent to the stream, Foam or sheen on bank, Mud, silt, or sand in or entering the stream, Garbage/junk in the stream, Yard waste on bank (clippings, leaves, etc.), Livestock in or with unrestricted access, Actively discharging pipes, Other pipes, Ditches entering stream |

| 16. Ordinary High Water Mark Determination |

| Check "P" if observed; Check "U" if used to determine OHWM |

| Natural line impressed on the bank, Shelving, Changes in the character of soil, Destruction of terrestrial vegetation, Presence of litter and debris, Wracking, Vegetation matted down, bent, or absent, Sediment sorting, Leaf litter disturbed or washed away, Scour, Deposition, Multiple observed flow events, Bed and banks, Water staining, Change in plant community |

### Waters Type

| 17. Waters Type |

| DELINATE, RPWWN, TNWW, RPWWD, UPLAND, TNWRPW |

### Observed Fauna

#### Left

| 18. Observed Fauna (make note of wildlife deterrents such as bird wires): |

| Invertebrates, Bees, Dragonflies, Birds, Night Heron, Mammals, Voles, Reptile/Amphibians, Frog, Fish |

### Additional Comments

| 19. Additional Comments |

| culverts at each end between Taft Rd and post office; 1 check dam |

| Datasheet entered by: | Last Revised: 09/25 |

| Chicago O'Hare International Airport |
| ORD WOUS Delineation |
| APPENDIX L |
| Draft Environmental Assessment |
| JUNE 2022 |
**Stream Characterization**

**Date:** 8/20/2019  
**Time:** 1:30pm  
**Site:** ORD  
**County:** Cook

**Field ID:** Stream/Ditch  
**Stream Name:** Ditch 41  
**Investigators:** CBM, KAS

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Storm (heavy rain)</th>
<th>Overcast</th>
<th></th>
<th>Rain (steady rain)</th>
<th>Clear/Sunny</th>
<th></th>
<th>Showers (intermittent rain)</th>
<th></th>
</tr>
</thead>
</table>

**5. Circle flow regime:** EPHEMERAL  
**PERENNIAL**  
**INTERMITTENT**

**4. Stream habitats present:**  
- Pool(s): X  
- Run(s):  
- riffles(s): X  
- N/A  

**6. Stream Velocity:**  
- fast  
- moderate  
- slow  
- N/A  

**9. Water Appearance:**  
- clear  
- milky  
- foamy  
- cloudy  
- turbid  
- orange  
- greenish  
- Other:  

**10. Water Odor:**  
- sewage  
- chlorine  
- fishty  
- rotten eggs  
- oily  
- none  

**11. Presence of logs or large woody debris in stream:**  
- None  
- Occasional  
- Plentiful

**12. Pick the category that best describes the extent to which vegetation shades the stream:**  
- None  
- Occasional  
- X Plentiful  
- Other - ____%

**13. Pick the description that best fits the stream bank and the channel (facing upstream):**

**a) Stream bank:**
- Vertical/undercut
- Steeply sloping (>30°)
- Gradual/No slope (<30°)

**b) Shape of the channel:**
- Narrow, Deep
- Wide, Deep
- Narrow, Shallow
- Wide, Shallow

---

**Facing upstream, does this stream have tree cover for 50 feet on the left side?**
- Yes
- No

**Facing upstream, does this stream have shrub cover for 50 feet on the left side?**
- Yes
- No

**Preservation of naturally occurring organic material in stream:**
- None
- Occasional
- X X Plentiful

---

**Plant Species Adjacent to stream (scientific name):**
- Rhamnus cathartica
- Phragmites australis, Lythrum salicaria,
- Typha angustifolia

**Understory:**
- Vertical/undercut
- Steeply sloping (>30°)
- Gradual/No slope (<30°)

---

**16. Ordinary High Water Mark Determination**

**Check "P" if observed; Check "U" if used to determine OHWM**

- Natural line impressed on the bank
- Shelving
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- Change in plant community

---

**17. Waters Type**

- DELINEATE
- NRPW
- TNW
- ISOlate
- RPW
- RPWWD
- TNWRPW

---

**18. Observed Fauna (make note of wildlife deterents such as bird wires)**

- Invertebrates: mosquitos
- Birds:  
- Mammals: rabbits
- Reptile/Amphians:  
- Fish:  

---

**19. Additional Comments**

---

**Datasheet entered by:**

---

**Last Revised:** 09/25
### Stream Characterization

**Date:** 8/19/2019  **Time:** 3:30pm  **Site:** Ditch 42  **County:** Cook  
**Investigators:** CBM

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Storm (heavy rain)</th>
<th>Overcast</th>
<th>Rain (steady rain)</th>
<th>Clear/Sunny</th>
<th>Showers (intermittent rain)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. Circle flow regime:</td>
<td>EPHEMERAL</td>
<td>INTERMITTENT</td>
<td>PERENNIAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Stream Velocity:</td>
<td>last</td>
<td>moderate</td>
<td>X slow</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>9. Water Appearance:</td>
<td>clear</td>
<td>milky</td>
<td>X</td>
<td>chlorine</td>
<td></td>
</tr>
<tr>
<td>10. Water Odor:</td>
<td>X</td>
<td>X</td>
<td>foamy</td>
<td>fishy</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>X</td>
<td>turbid</td>
<td>rotten eggs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>dark brown</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>organic</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>oily sheen</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>1. a) Approximate depth of water in stream:</td>
<td>unknown</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Presence of logs or large woody debris in stream:</td>
<td>X</td>
<td>None</td>
<td>Occasional</td>
<td>Plentiful</td>
<td></td>
</tr>
<tr>
<td>12. Pick the category that best describes the extent to which vegetation shades the stream:</td>
<td></td>
<td></td>
<td>0%</td>
<td>50%</td>
<td>100%</td>
</tr>
<tr>
<td>13. Pick the description that best fits the stream bank and the channel (facing upstream):</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. Describe the streamside cover. Check &quot;P&quot; if present, &quot;C&quot; if common:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Plant Species Adjacent to stream (scientific name):

- Phragmites australis
- Lythrum salicaria
- Dipsacus fullonum
- Typha latifolia
- Trifolium sp.
- Helianthus annuus
- Phragmites australis, Lythrum salicaria,
- Dipsacus fullonum, Typha latifolia,
- Trifolium sp., Helianthus annuus

### Ordinary High Water Mark Determination

**Check "P" if observed; Check "U" if used to determine OHWM**

- Natural line impressed on the bank
- Shelving
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- X X Change in plant community

### Waters Type

- DELINEATE
- RPWNN
- TNW
- NRPWW
- TNWW
- ISOLATE
- RPW
- UPLAND
- RPWWD
- TNRWWP

### Additional Comments

- culverts at each end between Taft Rd and post office; 1 check dam.
<table>
<thead>
<tr>
<th>Stream Characterization</th>
<th>Date: 8/19/2019</th>
<th>Time: 2:30 PM</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field ID:</strong> Stream/Ditch</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stream Name:</strong></td>
<td>Ditch 43</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Investigators:</strong></td>
<td>CBM</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Weather in the past 24 hours:
- Storm (heavy rain) Overcast
- Rain (steady rain) Clear/Sunny
- Showers (intermittent rain) N/A

### Weather in the past 24 hours:
- Storm (heavy rain) Overcast
- Rain (steady rain) Clear/Sunny
- Showers (intermittent rain) N/A

### Water Appearance:
- clear
- milky
- chlorine
- foamy
- fishy
- turbid
- rotten eggs
- light brown
- organic
- dark brown
- other:
- oily sheen
- none
- orange
- greenish
- other:

### Stream/Ditch

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Weather in the past 24 hours:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain) Overcast</td>
<td>Rain (steady rain) Clear/Sunny</td>
</tr>
<tr>
<td>Showers (intermittent rain) N/A</td>
<td>Showers (intermittent rain) N/A</td>
</tr>
</tbody>
</table>

### 1. Approximate depth of water in stream:
- N/A

### 2. Approximate width of water flow:
- 20 ft

### 3. Circle flow regime:
- EPHEMERAL
- PERENNIAL
- INTERMITTENT

### 4. Stream habitats present:
- Pool(s)
- Run(s)
- X N/A
- X N/A

### 5. Stream Velocity:
- slow

### 6. Nature of the particles in the stream bottom:
- X sand
- gravel
- Other:
- X X X X

### 7. Presence of naturally occurring organic material in stream:
- X None
- Occasional
- Plentiful

### 8. Facing upstream, does this stream have:
- tree cover
- for 50 feet on the:
- left side
- right side
- X 0%
- X 0%

### 9. Water Appearance:
- clear
- milky
- chlorine
- foamy
- fishy
- turbid
- rotten eggs
- light brown
- organic
- dark brown
- other:
- oily sheen
- none
- orange
- greenish
- other:

### 10. Water Odor:
- clear
- milky
- chlorine
- foamy
- fishy
- turbid
- rotten eggs
- light brown
- organic
- dark brown
- other:
- oily sheen
- none
- orange
- greenish
- other:

### 11. Presence of logs or large woody debris in stream:
- X None
- Occasional
- Plentiful

### 12. Pick the category that best describes the extent to which vegetation shades the stream:
- < 25%
- 25 - 50%
- 50 - 75%
- 75 - 100%
- X other - _____%

### 13. Pick the description that best fits the stream bank and the channel (facing upstream):
- X Narrow, Deep
- Wide, Deep

### 14. Describe the streamside cover.
- Check "P" if present, "C" if common
- X Along the water's edge and stream bank only (facing upstream):
- X Trees
- X Bushes, Shrubs
- X Tall grasses, forbs
- X Lawn, maintained landscape
- X Boulders/Rocks/Rip Rap
- X Gravel/Sand
- X Bare Soil
- X Pavement, Structures, Gabions

### 15. In the vicinity of the stream.
- Check "P" if present, "C" if common:
- X Natural Streamside plant cover degraded
- X Banks collapsed/eroded
- X Garbage/junk adjacent to the stream
- X Foam or sheen on bank
- X Mud, silt, or sand in or entering the stream
- X X Yard waste in bank (clippings, leaves, etc.)
- X Livestock in or with unrestricted access
- X Actively discharging pipes
- X Other pipes
- X Ditches entering stream

### 16. Ordinary High Water Mark Determination
- Check "P" if observed; Check "U" if used to determine OHWM

### 17. Waters Type
- DELINEATE
- NRPW
- TNW
- RPW
- RPWPD
- UPLAND

### 18. Observed Fauna (make note of wildlife deterrents such as bird wires)
- Invertebrates
- bees, butterflies
- X Birds
- night heron
- X Mammals
- rabbits, mice
- X Reptile/Amphians
- frogs
- X Fish

### 19. Additional Comments
- North of post office enclosed on 3 sides by fence. Enters and exits area through culverts. 1 culvert discharging from post office.
### Stream Characterization

**Field ID:** Stream/Ditch<br>**Date:** 8/29/2019<br>**Time:** 11:45 AM<br>**Site:** ORD<br>**County:** Cook<br>**Investigators:** CBM, BJH

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>5. Circle flow regime: EPHEMERAL PERENNIAL INTERMITTENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain)</td>
<td>Overcast</td>
</tr>
<tr>
<td>Rain (steady rain)</td>
<td>Clear/Sunny</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storm habitats present:</th>
<th>4.</th>
<th>Water Appearance:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pool(s)</td>
<td>Run(s)</td>
<td></td>
</tr>
<tr>
<td>Rippled(s)</td>
<td>X</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. Approximate depth of water in stream:</th>
<th>6-12 inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>b) Approximate width of water flow:</td>
<td>10 ft</td>
</tr>
<tr>
<td>c) Approximate width of stream: (from top of bank to top of bank)</td>
<td>18 ft</td>
</tr>
<tr>
<td>d) Approximate height of banks (channel depth):</td>
<td>3 ft left</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Plant Species Adjacent to stream (scientific name):</th>
<th>8. Facing upstream, does this stream have tree cover for 50 feet on the:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typha angustifolia, Phalaris arundinacea, Alisma subcordatum</td>
<td>left side no</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Slow</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7. Presence of naturally occurring organic material in stream:</th>
<th>11. Presence of logs or large woody debris in stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Occasional</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8. Facing upstream, does this stream have shrub cover for 50 feet on the:</th>
<th>12. Pick the category that best describes the extent to which vegetation shades the stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>left side no</td>
<td>right side no</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9. Water Appearance:</th>
<th>10. Water Odor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear</td>
<td>Sewage</td>
</tr>
<tr>
<td>Milky</td>
<td>Chlorine</td>
</tr>
<tr>
<td>Foamy</td>
<td>Fishy</td>
</tr>
<tr>
<td>Turbid</td>
<td>Rotten eggs</td>
</tr>
<tr>
<td>Light brown</td>
<td>Organic</td>
</tr>
<tr>
<td>Dark brown</td>
<td>Other</td>
</tr>
<tr>
<td>Oily sheen</td>
<td>None</td>
</tr>
<tr>
<td>Orange</td>
<td>Greenish</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13. Pick the description that best fits the stream bank and the channel (facing upstream):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical/undercut Steeply sloping (&gt;30°) X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14. Describe the streamside cover. Check &quot;P&quot; if present, &quot;C&quot; if common:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Along the water's edge and stream bank only (facing upstream):</td>
</tr>
<tr>
<td>Trees</td>
</tr>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15. In the vicinity of the stream, Check &quot;P&quot; if present, &quot;C&quot; if common:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Streamside plant cover degraded Banks collapsed/eroded</td>
</tr>
<tr>
<td>Garbage/junk adjacent to the stream Foam or sheen on bank Mud, silt, or sand in or entering the stream Garbage/junk in the stream Yard waste on bank (clippings, leaves, etc.) Livestock in or with unrestricted access Actively discharging pipes Other pipes Ditches entering stream</td>
</tr>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16. Ordinary High Water Mark Determination</th>
<th>17. Waters Type</th>
<th>18. Observed Fauna (make note of wildlife deterrents such as bird wires)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check &quot;P&quot; if observed; Check &quot;U&quot; if used to determine OHWM</td>
<td>Natural line impressed on the bank</td>
<td>Invertebrates</td>
</tr>
<tr>
<td>U</td>
<td>Shelving</td>
<td>Birds</td>
</tr>
<tr>
<td>P</td>
<td>Changes in the character of soil</td>
<td>Mammals</td>
</tr>
<tr>
<td>X</td>
<td>Destruction of terrestrial vegetation</td>
<td>Reptile/Amphians</td>
</tr>
<tr>
<td>X</td>
<td>Presence of litter and debris</td>
<td>Fish</td>
</tr>
<tr>
<td>X</td>
<td>Wracking</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Vegetation matted down; bent, or absent</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Sediment sorting</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Leaf litter disturbed or washed away</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Scour</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Deposition</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Multiple observed flow events</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Bed and banks</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Water staining</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Change in plant community</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Datasheet entered by:</th>
<th>Last Revised: 09/25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field ID: Stream/Ditch</td>
<td>Stream Name: Ditch 45</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------------</td>
</tr>
</tbody>
</table>

**Date:** 9/19/2019  
**Time:** 5:30pm  
**Site:** ORD  
**County:** Cook  
**Investigators:** CBM, BJH  
**Datasheet entered by:**  
**Last Revised:** 09/25

---

**Weather in the past 24 hours:**
- Storm (heavy rain)
- Rain (steady rain)  
- Showers (intermittent rain)

**Water Appearance:**
- Storm (heavy rain)
- Rain (steady rain)
- Showers (intermittent rain)

**Water Odor:**
- Light brown
- Dark brown

**Stream Velocity:**
- Fast
- Moderate
- Slow

---

**Stream Characterization:**

<table>
<thead>
<tr>
<th>Weather in the past 24 hours</th>
<th>5. Circle flow regime:</th>
<th>EPHEMERAL</th>
<th>PERENNIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6. Stream habitats present:</td>
<td>Pool(s)</td>
<td>Run(s)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>7. Nature of the particles in the stream bottom:</td>
<td>sand</td>
<td>gravel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>8. Facing upstream, does this stream have tree cover for 50 feet on the:</td>
<td>left</td>
<td>right</td>
</tr>
</tbody>
</table>

**Presence of naturally occurring organic material in stream:**
- None
- Occasional
- Unknown
- Plentiful

**Presence of logs or large woody debris in stream:**
- None
- Occasional
- Plentiful

**Waters Type:**
- RPWNN
- TNWW
- NRPWW
- ISOLATE
- RPWW
- UPLAND
- TPWR

---

**Streamside Cover:**

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
<th>X</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trees</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bushes, Shrubs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tall grasses, forbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lawn, maintained landscape</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boulders/Rocks/Rip Rap</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gravel/Sand</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bare Soil</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pavement, Structures, Gabions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Presence of Streetbanking:**

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
<th>X</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trees</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bushes, Shrubs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tall grasses, forbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lawn, maintained landscape</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boulders/Rocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gravel/Sand</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bare Soil</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pavement, Structures</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Presence of Streetbanking (top of bank to 10 ft):**

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
<th>X</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Natural Streamside plant cover degraded</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Banks collapsed/eroded</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Garbage/junk adjacent to the stream</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foam or sheen on bank</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mud, silt, or sand in or entering the stream</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Garbage/junk in the stream</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yard waste on bank (clippings, leaves, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Livestock in or with unrestricted access</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Actively discharging pipes</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other pipes</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ditches entering stream</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Ordinary High Water Mark Determination:**

<table>
<thead>
<tr>
<th>P</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural line impressed on the bank</td>
<td>Shelving</td>
</tr>
<tr>
<td>Changes in the character of soil</td>
<td>Destruction of terrestrial vegetation</td>
</tr>
<tr>
<td>Presence of litter and debris</td>
<td>Wracking</td>
</tr>
<tr>
<td>Vegetation matted down; bent, or absent</td>
<td>Sediment sorting</td>
</tr>
<tr>
<td>Leaf litter disturbed or washed away</td>
<td>Scour</td>
</tr>
<tr>
<td>Deposition</td>
<td>Multiple observed flow events</td>
</tr>
<tr>
<td>Bed and banks</td>
<td>Change in plant community</td>
</tr>
</tbody>
</table>

**Observed Fauna:**

- Invertebrates
- Dragonflies
- Birds
- Mammals
- Reptile/Amphians
- Fish

**Additional Comments:**

- under road culvert feeds stream

---

**Additional Notes:**

- ORD WOSU Delineation
- APPENDIX L
- L-458
- JUNE 2022

---

**Chicago O'Hare International Airport Draft Environmental Assessment**
<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Storm (heavy rain)</th>
<th>Overcast</th>
<th>Rain (steady rain)</th>
<th>X</th>
<th>Clear/Sunny</th>
<th>Showers (intermittent rain)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Stream Characterization</th>
<th>Date: 9/28/2019</th>
<th>Time: 10:00am</th>
<th>Site: ORD</th>
<th>County: Cook</th>
<th>Field ID: Stream Ditch</th>
<th>Stream Name: Ditch 46</th>
<th>Investigators: CBM, BJH</th>
</tr>
</thead>
</table>

5. Circle flow regime: \(\text{EPHEMERAL}\) \(\text{PERENNIAL}\) \(\text{INTERMITTENT}\)

4. Stream habitats present: \(\text{Pool(s)}\) \(\text{Run(s)}\) \(\text{Riffles(s)}\) \(\text{X}\) \(\text{N/A}\)

9. Water Appearance: \(\text{clear}\) \(\text{milky}\) \(\text{turbid}\) \(\text{light brown}\) \(\text{dark brown}\) \(\text{oily sheen}\) \(\text{chocolate}\) \(\text{fishy}\) \(\text{rotten eggs}\) \(\text{orange}\) \(\text{greenish}\) \(\text{X}\) \(\text{none}\)

8. Facing upstream, does this stream have tree cover for 50 feet on the: \(\text{left side}\) \(\text{no}\) \(\text{right side}\) \(\text{yes}\)

7. Presence of naturally occurring organic material in stream: \(\text{Unknown}\) \(\text{x}\) \(\text{None}\) \(\text{Occasional}\) \(\text{Plentiful}\)

6. Nature of the particles in the stream bottom:

<table>
<thead>
<tr>
<th>Approximate depth of pool(s):</th>
<th>Unknown</th>
<th>X</th>
<th>None</th>
<th>Occasional</th>
<th>Plentiful</th>
</tr>
</thead>
</table>

5. Stream Velocity: \(\text{fast}\) \(\text{moderate}\) \(\text{slow}\) \(\text{X}\) \(\text{N/A}\)

4. Stream habitats present: \(\text{Pool(s)}\) \(\text{Run(s)}\) \(\text{Riffles(s)}\) \(\text{X}\) \(\text{N/A}\)

3. Circle flow regime: \(\text{EPHEMERAL}\) \(\text{PERENNIAL}\) \(\text{INTERMITTENT}\)

2. Plant Species Adjacent to stream (scientific name):

<table>
<thead>
<tr>
<th>Trees:</th>
<th>Morus alba, Acer negundo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understory:</td>
<td>Phalaris arundinacea, Carex sp., Solidago sempervirens, Rumex crispus, Eleocharis obtusa, Sambucus canadensis</td>
</tr>
<tr>
<td>Facing upstream, does this stream have shrub cover for 50 feet on the:</td>
<td>left side</td>
</tr>
</tbody>
</table>

1. a) Approximate depth of water in stream: \(\text{N/A}\)

1. b) Approximate width of water flow: \(\text{N/A}\)

1. c) Approximate width of stream: \(\text{N/A}\)

1. d) Approximate height of banks (channel depth):

<table>
<thead>
<tr>
<th>left</th>
<th>right</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 ft</td>
<td>2 ft</td>
</tr>
</tbody>
</table>

1. e) Approximate depth of pool(s): \(\text{X}\) \(\text{N/A}\)

11. Presence of logs or large woody debris in stream:

<table>
<thead>
<tr>
<th>X</th>
<th>None</th>
<th>Occasional</th>
<th>Plentiful</th>
</tr>
</thead>
</table>

12. Pick the category that best describes the extent to which vegetation shades the stream:

<table>
<thead>
<tr>
<th>0%</th>
<th>25%</th>
<th>50%</th>
<th>75%</th>
<th>100%</th>
<th>other - _____%</th>
</tr>
</thead>
</table>

13. Pick the description that best fits the stream and the channel (facing upstream):

a) Stream bank:

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical/undercut</td>
<td>Steeply sloping (&gt;30°)</td>
</tr>
<tr>
<td>Gravel/No slope (&lt;30°)</td>
<td>X</td>
</tr>
</tbody>
</table>

b) Shape of the channel:

<table>
<thead>
<tr>
<th>Narrow, Deep</th>
<th>Wide, Deep</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narrow, Shallow</td>
<td>Wide, Shallow</td>
</tr>
</tbody>
</table>

14. Describe the streamside cover. Check "P" if present, "C" if common:

<table>
<thead>
<tr>
<th>P</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees</td>
<td>Bushes, Shrubs, Tall grasses, forbs, Lawn, maintained landscape</td>
</tr>
</tbody>
</table>

b) From the top of the streambank out to 50 feet:

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>C</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

15. In the vicinity of the stream, Check "P" if present, "C" if common:

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Streamside plant cover degraded</td>
<td>Banks collapsed/eroded, Garbage/junk adjacent to the stream, Foam or sheen on bank, Mud, silt, or sand in or entering the stream, Yards waste on banks (clippings, leaves, etc.), Livestock in or with unrestricted access, Actively discharging pipes, Other pipes, Ditches entering stream</td>
</tr>
</tbody>
</table>

16. Ordinary High Water Mark Determination

Check "P" if observed; Check "U" if used to determine OHWM

<table>
<thead>
<tr>
<th>P</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural line impressed on the bank</td>
<td>shelving</td>
</tr>
<tr>
<td>Changes in the character of soil</td>
<td>destruction of terrestrial vegetation</td>
</tr>
<tr>
<td>Presence of litter and debris</td>
<td>Wracking</td>
</tr>
<tr>
<td>Vegetation matted down, bent, or absent</td>
<td>Sediment sorting</td>
</tr>
<tr>
<td>Leaf litter disturbed or washed away</td>
<td>scour</td>
</tr>
<tr>
<td>Deposition</td>
<td>multiple observed flow events</td>
</tr>
<tr>
<td>Bed and banks</td>
<td>water staining</td>
</tr>
<tr>
<td>Water staining</td>
<td>change in plant community</td>
</tr>
</tbody>
</table>

17. Waters Type:

| X | DELINEATE | RPWWN |
| TNW | NRPWW | UPLAND |
| TQW | RPWWD | TNWWR |

18. Observed Fauna (make note of wildlife deterrents such as bird wires)

<table>
<thead>
<tr>
<th>List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invertebrates</td>
</tr>
<tr>
<td>Mammals</td>
</tr>
<tr>
<td>Fish</td>
</tr>
</tbody>
</table>

19. Additional Comments

Roadside ditch along Mannheim Rd.

Datasheet entered by: Last Revised: 09/25
**Stream Characterization**

**Field ID:** Stream/Ditch

**Stream Name:** Ditch 47

**Investigators:** CBM, BJH

**Date:** 9/19/2019 4:40pm  **Site:** ORD  **County:** Cook

### Weather in the past 24 hours:
- Rain (steady rain) **x**
- Storm (heavy rain)  
- Overcast

### Storm Characterization:

<table>
<thead>
<tr>
<th>Weather Condition</th>
<th>Approximate Depth of Water in Stream</th>
<th>Approximate Width of Water Flow</th>
<th>Nature of the Particles in the Stream Bottom</th>
<th>Presence of Naturally Occurring Organic Material in Stream</th>
<th>Presence of Logs or Large Woody Debris in Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Unknown</td>
<td>None X Occasional Plentiful</td>
</tr>
<tr>
<td>Rain (steady rain)</td>
<td>2 inches</td>
<td>10 ft</td>
<td>sand</td>
<td>None X Occasional</td>
<td>X</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td>6 ft left, 10 ft right</td>
<td>25 ft</td>
<td>gravel</td>
<td>Some</td>
<td>X</td>
</tr>
</tbody>
</table>

### Stream Flow Regime:
- **EPHEMERAL**

### Stream Habitats Present:
- Pool(s)  
- Run(s)  
- Hiffies(s)  

### Water Appearance:
- Clear/Sunny

### Water Odor:
- Sewage

### Stream Velocities:
- Fast  
- Moderate  
- Slow  

### Nature of the Particles in the Stream Bottom:
- Silt/Clay/Mud  
- Sand  

### Presence of Naturally Occurring Organic Material in Stream:
- None  
- Occasional  
- Unknown  
- Plentiful

### Presence of Logs or Large Woody Debris in Stream:
- None  
- Occasional  
- Plentiful

### Ordinary High Water Mark Determination:

#### 16. Ordinary High Water Mark Determination

**Check "P" if observed; Check "U" if used to determine OHWM**

- Natural line impressed on the bank
- Shelving
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- X X Change in plant community

**Waters Type**
- DELINEATE  
- TNW
- RPW
- ISOLATE
- UPLAND
- RPW

**Observed Fauna**
- (Make note of wildlife deterrents such as bird wires)
- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

### Observations:

- 6ft x 3ft culvert at west end drains to ditch. Large 36" culvert connects two sections.
### Stream Characterization

**Field ID:** Stream/Ditch  
**Date:** 9/26/2019  
**Time:** 9:00 am  
**Site:** ORD  
**County:** Cook  

#### Weather in the past 24 hours:
- Storm (heavy rain)  
- Rain (steady rain)  
- Showers (intermittent rain)  

#### Stream Characterization Details:

<table>
<thead>
<tr>
<th>Date</th>
<th>Site</th>
<th>County</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/26/2019</td>
<td>ORD</td>
<td>Cook</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storm Characterization</th>
<th>Date: 9/26/2019</th>
<th>Time: 9:00am</th>
<th>Site: ORD</th>
<th>County: Cook</th>
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<table>
<thead>
<tr>
<th>Stream Name: Ditch 48</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain)</td>
</tr>
<tr>
<td>Rain (steady rain)</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storm Characterization Details:</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Clear/Sunny</td>
</tr>
</tbody>
</table>

| Storm Characterization Details:  
|----------------------------------|
| Storm Characterization Details:  
|----------------------------------|

#### Stream Characteristics:

- **Field ID:** Stream/Ditch
- **Stream Name:** Ditch 48
- **Investigators:** CBM, BJH

<table>
<thead>
<tr>
<th>Stream Characterization</th>
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<th>Site: ORD</th>
<th>County: Cook</th>
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<table>
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<th>Time: 9:00am</th>
<th>Site: ORD</th>
<th>County: Cook</th>
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</table>

#### Stream Characteristics Details:

<table>
<thead>
<tr>
<th>1. Approximate depth of water in stream:</th>
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</thead>
<tbody>
<tr>
<td>N/A</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>2. Approximate width of water flow:</th>
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<tbody>
<tr>
<td>12 ft</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Water Velocity:</th>
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</thead>
<tbody>
<tr>
<td>Fast</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Water Temperature:</th>
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</thead>
<tbody>
<tr>
<td>72°F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. Water Transparency:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>6. Water Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light brown</td>
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</table>

<table>
<thead>
<tr>
<th>7. Water Odor:</th>
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<tbody>
<tr>
<td>Muddy</td>
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</table>

<table>
<thead>
<tr>
<th>8. Water Temperature:</th>
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<tbody>
<tr>
<td>72°F</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>9. Water Transparency:</th>
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</thead>
<tbody>
<tr>
<td>Poor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10. Water Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>11. Water Odor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muddy</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>12. Water Temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>72°F</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>13. Water Transparency:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14. Water Color:</th>
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</thead>
<tbody>
<tr>
<td>Brown</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>15. Water Odor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muddy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16. Water Temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>72°F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>17. Water Transparency:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>18. Water Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>19. Water Odor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muddy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>20. Water Temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>72°F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>21. Water Transparency:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>22. Water Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>23. Water Odor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muddy</td>
</tr>
</tbody>
</table>

---

### Additional Comments:

- Culvert on west end from detention area to west. Fenced in lot on right bank with SCF. Culvert at west end; roadside ditch from north.

---

**Datasheet entered by:**  
**Last Revised:** 09/25
Stream Characterization

<table>
<thead>
<tr>
<th>Stream Name</th>
<th>Field ID</th>
<th>County</th>
<th>Site</th>
<th>County</th>
<th>Investigators</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CBM, BJH</td>
</tr>
</tbody>
</table>

### Weather
- **Storm (heavy rain):** Overcast
- **Rain (steady rain):** Clear/Sunny
- **Showers (intermittent rain):** N/A

### Weather in the past 24 hours:
- Storm (heavy rain)
- Rain (steady rain)
- Showers (intermittent rain)

### Current Time and Date:
- **9/18/2019**
- **9:20 AM**

### 1. Approximate depth of water in stream:
- **x N/A**

### 2. Plant Species Adjacent to stream (scientific name):
- **Acer negundo, Populus deltoids**
- **Rhamnus cathartica**

### 3. Circle flow regime:
- **EPHEMERAL**
- **PERENNIAL**

### 4. Stream Velocity:
- **Slow**

### 5. Stream Width:
- **N/A**

### 6. Nature of the particles in the stream bottom:
- **sand**
- **gravel**
- **cobbles (2 - 10" diam.)**
- **bedrock**
- **N/A**

### 7. Presence of naturally occurring organic material in stream:
- **Unknown**
- **x None**
- **Occasional**
- **Plentiful**

### 8. Facing upstream, does this stream have tree cover for 50 feet on the:
- **left side:** ____
- **right side:** ____

### 9. Water Appearance:
- **Clear**
- **Foamy**
- **Fishy**
- **Turbid**
- **Oily sheen**
- **None**

### 10. Water Odor:
- **Seaweed**
- **Chlorine**
- **Rotten eggs**
- **Organic**
- **Other:**
- **N/A**

### 11. Presence of logs or large woody debris in stream:
- **None**
- **Occasional**
- **Plentiful**

### 12. Pick the category that best describes the extent to which vegetation shades the stream:
- **0%**
- **50%**
- **75%**
- **100%**
- **Other:**

### 13. Pick the description that best fits the stream bank and the channel (facing upstream):
- **Vertical/undercut**
- **Steeply sloping (>30°)**
- **Gradual/No slope (<30°)**

### 14. Describe the streamside cover. Check "P" if present, "C" if common:
- **a) Along the water's edge and stream bank only (facing upstream):**
  - **Trees:**
    - **Bridges, Shrubs:**
    - **Gravel/Sand:**
    - **Boulders/Rocks/Rip Rap:**
    - **Bare Soil:**
    - **Pavement, Structures, Gabions:**
  - **Left:**
    - **Right:**
  - **b) From the top of the streambank out to 50 feet:***
    - **Left:**
      - **Right:**
  - **c) In the vicinity of the stream:**
    - **Left:**
      - **Right:**

### 15. Waters Type:
- **DELINEATE**
- **NRPW**
- **TNWW**
- **ISOlate**
- **RPWW**
- **UPLAND**
- **TNWRPW**

### 16. Ordinary High Water Mark Determination
- **Natural line impressed on the bank**
- **Shelving**
- **Changes in the character of soil**
- **Destruction of terrestrial vegetation**
- **Presence of litter and debris**
- **Wracking**
- **Vegetation matted down; bent, or absent**
- **Sediment sorting**
- **Leaf litter disturbed or washed away**
- **Scour**
- **Deposition**
- **Multiple observed flow events**
- **Bed and banks**
- **Water staining**
- **Change in plant community**

### Observed Fauna (make note of wildlife deterrents such as bird wires)
- **Invertebrates**
- **List**
  - **Birds**
  - **Mammals**
  - **Reptile/Amphians**
  - **Fish**

### Additional Comments
- **Two ephemerals from hilltop through bank erosion to bench above Willow Creek.**

### Datasheet entered by:
- **CookORD**
- **ORD WOOS Delineation**
- **Chicago O'Hare International Airport**
- **Draft Environmental Assessment**
- **APPENDIX L**
- **L-462**
- **JUNE 2022**

### Last Revised: 09/25
### Stream Characterization Table

<table>
<thead>
<tr>
<th>Date: 9/17/2019</th>
<th>Time: 2:15pm</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
</table>

#### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): X Clear/Sunny
- Showers (intermittent rain): X

#### Stream Habitat Present:
- Pool(s): Run(s)
- riffles(s): X slow

#### Water Appearance:
- EPHEMERAL
- PERENNIAL

#### Water Odor:
- clear
- milky
- chlorine
- foamy
- fishy
- turbid
- light brown
- organic
- dark brown
- oily sheen
- rotten eggs

#### Nature of the particles in the stream bottom:
- N/A
- None
- Little
- Some
- Most

#### Presence of naturally occurring organic material in stream:
- Unknown
- Occasional
- Plentiful

#### Presence of logs or large woody debris in stream:
- None
- Occasional
- Plentiful

#### Ordinary High Water Mark Determination:
- Natural line impressed on the bank
- Sediment sorting

#### Presence of litter and debris:
- Wracking
- Vegetation matted down; bent, or absent
- Destruction of terrestrial vegetation
- Presence of litter and debris

#### Change in plant community:
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Deposits

#### Waters Type:
- DELINEATE
- RPWWN
- TNW
- RNPRW

#### Observed Fauna:
- Dragonflies, butterflies
- ducks
- Rattlesnakes
- Fish

#### Additional Comments:
- More natural stream bank; no riprap except some used for bank reinforcement

---

### Ditches entering stream

- Pavement, Structures, Gabions
- Tall grasses, forbs
- Lawn, maintained landscape
- Bare Soil
- Pavement, Structures, Gabions

### Natural Streamside plant cover degraded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream

---

### Ordinary High Water Mark Determination

#### Check "P" if observed; Check "U" if used to determine OHWM

- Natural line impressed on the bank
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Deposits

#### Waters Type:
- DELINEATE
- RPWWN
- TNW
- RNPRW
- ISOLATE

#### Observed Fauna:
- Dragonflies, butterflies
- Birds
- Mammals
- Reptiles/Amphians
- Fish

#### Additional Comments:
- More natural stream bank; no riprap except some used for bank reinforcement

---

### Ditches entering stream

- Pavement, Structures, Gabions
- Tall grasses, forbs
- Lawn, maintained landscape
- Bare Soil
- Pavement, Structures, Gabions

### Natural Streamside plant cover degraded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream

---

### Ordinary High Water Mark Determination

#### Check "P" if observed; Check "U" if used to determine OHWM

- Natural line impressed on the bank
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Deposits

#### Waters Type:
- DELINEATE
- RPWWN
- TNW
- RNPRW
- ISOLATE
- RPW
- UPLAND
- RPWWD
- TNWRPW

#### Observed Fauna:
- Dragonflies, butterflies
- Birds
- Mammals
- Reptiles/Amphians
- Fish

#### Additional Comments:
- More natural stream bank; no riprap except some used for bank reinforcement

---

### Ditches entering stream

- Pavement, Structures, Gabions
- Tall grasses, forbs
- Lawn, maintained landscape
- Bare Soil
- Pavement, Structures, Gabions

### Natural Streamside plant cover degraded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream

---

### Ordinary High Water Mark Determination

#### Check "P" if observed; Check "U" if used to determine OHWM

- Natural line impressed on the bank
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Deposits

#### Waters Type:
- DELINEATE
- RPWWN
- TNW
- RNPRW
- ISOLATE
- RPW
- UPLAND
- RPWWD
- TNWRPW

#### Observed Fauna:
- Dragonflies, butterflies
- Birds
- Mammals
- Reptiles/Amphians
- Fish

#### Additional Comments:
- More natural stream bank; no riprap except some used for bank reinforcement

---

### Ditches entering stream

- Pavement, Structures, Gabions
- Tall grasses, forbs
- Lawn, maintained landscape
- Bare Soil
- Pavement, Structures, Gabions

### Natural Streamside plant cover degraded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream

---

### Ordinary High Water Mark Determination

#### Check "P" if observed; Check "U" if used to determine OHWM

- Natural line impressed on the bank
- Changes in the character of soil
- Destruction of terrestrial vegetation
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Deposits

#### Waters Type:
- DELINEATE
- RPWWN
- TNW
- RNPRW
- ISOLATE
- RPW
- UPLAND
- RPWWD
- TNWRPW

#### Observed Fauna:
- Dragonflies, butterflies
- Birds
- Mammals
- Reptiles/Amphians
- Fish

#### Additional Comments:
- More natural stream bank; no riprap except some used for bank reinforcement

---

### Ditches entering stream

- Pavement, Structures, Gabions
- Tall grasses, forbs
- Lawn, maintained landscape
- Bare Soil
- Pavement, Structures, Gabions

### Natural Streamside plant cover degraded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Garbage/junk in the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream
<table>
<thead>
<tr>
<th>Stream Characterization</th>
<th>Date: 9/17/2019</th>
<th>Time: 2:00pm</th>
<th>Site: ORD</th>
<th>County: Cook</th>
</tr>
</thead>
</table>

**Stream ID:** Higgins Creek - section 2

**Stream Name:** Higgins Creek - section 2

**County:** Cook

**Investigators:** CBM, BJH

**Weather in the past 24 hours:**
- Storm (heavy rain) Overcast
- Rain (steady rain) Clear/Sunny
- Showers (intermittent rain)

**Field Site:**

**Stream/Ditch:** Higgins Creek - section 2

**Stream Name:** Higgins Creek - section 2

**Investigators:** CBM, BJH

**Date:** 9/17/2019

**Time:** 2:00pm

**Site:** ORD

**County:** Cook

### Stream Characteristics

**Flow Regime:**
- **EPHEMERAL:**
- **INTERMITTENT:**
- **PERENNIAL**

**Habitats Present:**
- **Pool(s):**
- **Run(s):**
- **Riffles(s):**
- **Bedrock:**

**Velocity:**
- **Fast:**
- **Moderate:**
- **Slow:**
- **N/A:**

**Depth of Water in Stream:**
- **Approximate:**
- **5-6 ft:**

**Width of Water Flow:**
- **Approximate:**
- **50 ft:**

**Nature of the Stream Bottom:**
- **Silt/Clay/Mud:**
- **Sand:**
- **Gravel:**
- **Boulders (<10" diam.):**
- **Boulders (>10" diam.):**

**Height of Banks (Channel Depth):**
- **Left:**
- **Right:**

**Presence of Naturally Occurring Organic Material:**
- **None:**
- **Occasional:**
- **Plentiful:**

**Facing Upstream:**
- **Options:**
- **Tree Cover:**
- **Shrub Cover:**

**Shape of the Channel:**
- **Narrow, Deep:**
- **Wide, Deep:**

**Plant Species Adjacent to Stream:**
- **Scientific Name:**

<table>
<thead>
<tr>
<th>Species</th>
<th>Understory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solidago sempervirens, Phalaris arundinacea, Eupatorium serotinum</td>
<td>Vertical/undercut Steeply sloping (&gt;30°)</td>
</tr>
</tbody>
</table>

**Observed Fauna:**
- **Butterflies:**
- **Birds:**
- **Mammals:**
- **Reptile Amphibians:**
- **Fish:**

**Additional Comments:**
- **Double box culverts at upstream and downstream ends**

---

**Natural Streamside Plant Cover Degraded:**
- **Banks collapsed/eroded:**
- **Garbage/junk adjacent to the stream:**
- **Foam or sheen on bank:**
- **Garbage/junk in the stream:**
- **Mud, silt, or sand in or entering the stream:**
- **Yard waste on bank (clippings, leaves, etc.):**
- **Livestock in or with unrestricted access:**
- **Actively discharging pipes:**
- **Other pipes:**
- **Ditches entering stream:**

---

**Datasheet entered by:**

**Last Revised:** 09/25

---

**APPENDIX L**

**ORD WLRUS Delineation**

**Chicago O'Hare International Airport**

**Draft Environmental Assessment**

**JUNE 2022**

**L-464**
Stream Characterization

**Date:** 8/12/2019  **Time:** 11:45 AM  **Site:** Higgins Creek - Section 3  **County:** Cook  **Investigators:** BJH

<table>
<thead>
<tr>
<th>Field ID: Higgins Creek - Section 3</th>
<th>Stream Name: Higgins Creek - Section 3</th>
</tr>
</thead>
</table>

**Weather in the past 24 hours:**
- Storm (heavy rain) X Overcast
- Rain (steady rain) Clear/Sunny
- Showers (intermittent rain)

1. **Approximate depth of water in stream:**
   - N/A
   - 3-4 ft

2. **Plant Species Adjacent to stream (scientific name):**
   - Fraxinus pensylvanica, Betula sp.
   - Lythrum salicaria, Phragmites australis
   - Lycopus americanus, Persicaria sp.
   - Sambucus sp.

3. **Facing upstream, does this stream have tree cover for 50 feet on the:**
   - left side yes right side yes
   - What is the % cover of trees per side of the stream?
     - left side 10% right side 5%

4. **Facing upstream, does this stream have shrub cover for 50 feet on the:**
   - left side no right side yes
   - What is the % cover of shrubs per side of the stream?
     - 0% 5%

5. **Stream Flow Regime:**
   - EPHEMERAL PERENNIAL

6. **Stream Velocity:**
   - X N/A

7. **Presence of naturally occurring organic material in stream:**
   - Unknown

8. **Stream Habitat Present:**
   - None

9. **Nature of the particles in the stream bottom:**
   - sand

10. **Presence of logs or large woody debris in stream:**
    - None

11. **Nature of the particles in the stream bottom:**
    - gravel

12. **Presence of naturally occurring organic material in stream:**
    - None

13. **Facing upstream, does this stream have shrub cover for 50 feet on the:**
    - left side no right side yes

14. **Approximate width of water flow:**
    - N/A
    - 35 ft

15. **Presence of logs or large woody debris in stream:**
    - None

16. **Facing upstream, does this stream have shrub cover for 50 feet on the:**
    - left side no right side yes

17. **Nature of the particles in the stream bottom:**
    - gravel

18. **Presence of naturally occurring organic material in stream:**
    - None

**Streamside Cover: Check "P" if present, "C" if common**

- **Along the water's edge and stream bank only (facing upstream):**
  - P C
  - Trees
  - Bushes, Shrubs
  - Lawn, maintained landscape
  - Boulders/Rocks/Rip Rap
  - Gravel/Sand
  - Bare Soil
  - Pavement, Structures, Gabions

- **From the top of the streambank out to 50 feet:**
  - P C
  - Trees
  - Bushes, Shrubs
  - Lawn, maintained landscape
  - Boulders/Rocks
  - Gravel/Sand
  - Bare Soil
  - Pavement, Structures

19. **In the vicinity of the stream, Check "P" if present, "C" if common:**
- **Natural Streamside plant cover degraded:**
- **Banks collapsed/eroded:**
- **Garbage/junk adjacent to the stream:**
- **Foam or sheen on bank:**
- **Mud, silt, or sand in or entering the stream:**
- **Garbage/junk in the stream:**
- **Yard waste on bank (clippings, leaves, etc.):**
- **Livestock in or with unrestricted access:**
- **Actively discharging pipes:**
- **Other pipes:**
- **Ditches entering stream:**

**Datasheet entered by:** Higgins Creek - Section 3  **Last Revised:** 09/25
### Stream Characterization

<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Date: 7/31 &amp; 8/2</th>
<th>Time:</th>
<th>Site: ORD TAP</th>
<th>County: Cook</th>
<th>Investigators: BJH, KAS</th>
</tr>
</thead>
</table>

#### Weather in the past 24 hours:
- Storm (heavy rain) Overcast
- Rain (steady rain) Clear/Sunny
- Showers (intermittent rain)

#### Stream flow regime:
- Ephemeral
- Perennial
- Intermittent

#### Stream habitats present:
- Pool(s)
- Run(s)
- riffles(s)
- N/A

#### Stream Velocity:
- fast
- moderate
- X slow
- N/A

#### Water Appearance:
- clear
- milky
- chlorine
- foamy
- fishy
- turbid
- light brown
- dark brown
- oily sheen
- X orange
- greenish
- X other:

#### Presence of logs or large woody debris in stream:
- X None
- Occasional
- Plentiful

#### Presence of naturally occurring organic material in stream:
- None
- Occasional
- X Unknown
- X Plentiful

#### Facing upstream, does this stream have tree cover for 50 feet on the:
- left side
- right side
- X yes
- Right

#### Facing upstream, does this stream have shrub cover for 50 feet on the:
- left side
- right side
- X yes
- Right

#### Ordinary High Water Mark Determination

16. **Ordinary High Water Mark Determination**

Check "P" if observed; Check "U" if used to determine OHWM

<table>
<thead>
<tr>
<th>P</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural line impressed on the bank</td>
<td>Shelving</td>
</tr>
<tr>
<td>Changes in the character of soil</td>
<td>Destruction of terrestrial vegetation</td>
</tr>
<tr>
<td>Presence of litter and debris</td>
<td>Wracking</td>
</tr>
<tr>
<td>Vegetation matted down; bent, or absent</td>
<td>Sediment sorting</td>
</tr>
<tr>
<td>Leaf litter disturbed or washed away</td>
<td>Scour</td>
</tr>
<tr>
<td>Deposition</td>
<td>Multiple observed flow events</td>
</tr>
<tr>
<td>Bed and banks</td>
<td>Water staining</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Change in plant community</td>
<td>X</td>
</tr>
</tbody>
</table>

#### Waters Type

| DELINEATE | RPWNN |
| TNW | NRPPW |
| TNWW | ISOLATE |
| X | UPLAND |
| RPW | RPWWD |
| X | |

#### Observed Fauna (make note of wildlife deterrents such as bird wires)

- Invertebrates
- Birds
- Mammals
- Reptile Amphibians
- Fish

#### Additional Comments
- flows south from culvert under Touhy Rd at north end of site; flows south to Willow Creek. Banks armored with riprap. Woody veg at confluence of Willow Creek and along east fence.

---

**Datasheet entered by:** KAS  **Last Revised: 08/19**
Stream Characterization

Field ID: Stream Ditch

Stream Name: Tributary 2: Willow Creek

County: Cook

Investigators: CBM, BJH

Date: 8/27/2019

Time: 5:00pm

Site: ORD

Weather in the past 24 hours:
- Rain (steady rain)
- Storm (heavy rain)
- Overcast

1. Approximate depth of water in stream:
   - N/A

2. Approximate width of water flow:
   - N/A

3. Stream Velocity:
   - Fast

4. Stream habitats present:
   - Pool(s)
   - Run(s)

5. Water Appearance:
   - Clear

6. Water Odor:
   - None

7. Presence of naturally occurring organic material in stream:
   - Unknown

8. Facing upstream, does this stream have tree cover for 50 feet on the:
   - Left side: None
   - Right side: None

9. Tree cover per side of the stream:
   - Left side: 0%
   - Right side: 0%

10. What is the % cover of shrubs per side of the stream?
    - Left side: 25%
    - Right side: 25%

11. Presence of logs or large woody debris in stream:
    - None

12. Pick the category that best describes the extent to which vegetation shades the stream:
    - None: 0%
    - Occasional: 25%
    - Plentiful: 75%
    - Other: ___%

13. Pick the description that best fits the stream bank and the channel (facing upstream):
    - Vertical/undercut: X
    - Steeply sloping (>30°): X
    - Gradual/No slope (<30°): X

14. Describe the streamside cover. Check "P" if present, "C" if common:
    - Along the water's edge and stream bank only (facing upstream):
      - Natural line impressed on the bank
      - Shelving
      - Changes in the character of soil
      - Destruction of terrestrial vegetation
      - Presence of litter and debris
      - Wracking
      - Vegetation matted down; bent, or absent
      - Sediment sorting
      - Leaf litter disturbed or washed away
      - Scour
      - Deposition
      - Multiple observed flow events
      - Bed and banks
      - Water staining
      - Change in plant community
    - From the top of the streambank out to 50 feet:
      - Natural Streamside plant cover degraded
      - Banks collapsed/eroded
      - Garbage/junk adjacent to the stream
      - Foam or sheen on bank
      - Mud, silt, or sand in or entering the stream
      - Garbage/junk in the stream
      - Yard waste on bank (clippings, leaves, etc.)
      - Livestock in or with unrestricted access
      - Actively discharging pipes
      - Storage tanks
      - Ditches entering stream

15. In the vicinity of the stream, Check "P" if present, "C" if common:
    - Natural Streamside plant cover degraded
    - Banks collapsed/eroded
    - Garbage/junk adjacent to the stream
    - Foam or sheen on bank
    - Mud, silt, or sand in or entering the stream
    - Garbage/junk in the stream
    - Yard waste on bank (clippings, leaves, etc.)
    - Livestock in or with unrestricted access
    - Actively discharging pipes
    - Storage tanks
    - Ditches entering stream

16. Ordinary High Water Mark Determination
    - Left:
      - Trees
      - Bushes, Shrubs
      - Tall grasses, forbs
      - Lawn, maintained landscape
      - Boulders/Rocks/Rip Rap
      - Gravel/Sand
      - Bare Soil
      - Pavement, Structures, Gabions
    - Right:
      - Trees
      - Bushes, Shrubs
      - Tall grasses, forbs
      - Lawn, maintained landscape
      - Boulders/Rocks/Rip Rap
      - Gravel/Sand
      - Bare Soil
      - Pavement, Structures

17. Waters Type:
    - DELINEATE
    - TNW
    - TNWW
    - RP
    - RPWW
    - ISOolate
    - UPLAND
    - TANRPW

18. Observed Fauna (make note of wildlife deterrents such as bird wires)
    - List
    - Invertebrates
    - Crickets
    - Birds
    - Mammals
    - Beaver/muskrat?
    - Reptile/Amphians
    - Fish

19. Additional Comments
    - Culvert at east end drains to detention area under road. Culvert in detention area is broken; heavily rip-rapped

Datasheet entered by: Last Revised: 09/25
### Stream Characterization

<table>
<thead>
<tr>
<th>Weather in the past 24 hours:</th>
<th>Stream Velocity:</th>
<th>Circled flow regime:</th>
<th>Water Appearance:</th>
<th>Water Odor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storm (heavy rain) X Overcast</td>
<td>N/A</td>
<td>INTERMITTENT</td>
<td>1.</td>
<td>clear</td>
</tr>
<tr>
<td>Rain (steady rain) Clear/Sunny</td>
<td>N/A</td>
<td>EPHEMERAL</td>
<td>2.</td>
<td>milky</td>
</tr>
<tr>
<td>Showers (intermittent rain)</td>
<td>N/A</td>
<td>PERENNIAL</td>
<td>3.</td>
<td>chlorinated</td>
</tr>
</tbody>
</table>

### Stream Characteristics

<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Stream Name: Tributary 3: Willow Creek</th>
<th>Investigators: BJH, KAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date: 7/17/2019</td>
<td>Location: ORD WH East</td>
<td>County: Cook</td>
</tr>
</tbody>
</table>

#### 1. Approximate depth of water in stream:
- 6-8 inches
- N/A

#### 2. Approximate width of water flow:
- 15 feet
- N/A

#### 3. Nature of the particles in the stream bottom:
- sand
- gravel
- cobbles (2 - 10" diam.)
- bedrock
- N/A

#### 4. Presence of naturally occurring organic material in stream:
- Unknown
- None
- Occasional

#### 5. Stream bank:
- Left side:
  - 40%
  - right side:
  - 70%

#### 6. Facing upstream, does this stream have "tree" cover for 50 feet on the:
- left side:
  - yes
  - right side:
  - yes

#### 7. Facing upstream, does this stream have "shrub" cover for 50 feet on the:
- left side:
  - yes
  - right side:
  - yes

#### 8. Ordinary High Water Mark Determination

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees</td>
<td>P C</td>
</tr>
<tr>
<td>Bushes, Shrubs</td>
<td>X X</td>
</tr>
<tr>
<td>Tall grasses, forbs</td>
<td>X X</td>
</tr>
<tr>
<td>Lawn, maintained landscape</td>
<td>X X</td>
</tr>
<tr>
<td>Boulders/Rocks/Rip Rap</td>
<td>X X</td>
</tr>
<tr>
<td>Gravel/Sand</td>
<td>X X</td>
</tr>
<tr>
<td>Bare Soil</td>
<td>X X</td>
</tr>
<tr>
<td>Pavement, Structures, Gabions</td>
<td>X X</td>
</tr>
</tbody>
</table>

#### 9. In the vicinity of the stream, check "P" if present, "C" if common:
- Natural Streamside plant cover degraded |
- Banks collapsed/eroded |
- Garbage/junk adjacent to the stream |
- Foam or sheen on bank |
- Mud, silt, or sand in or entering the stream |
- Yard waste on bank (clippings, leaves, etc.) |
- Livestock in or with unrestricted access |
- Actively discharging pipes |
- Other pipes |
- Ditches entering stream

#### 10. Watershed Type
- DELINEATE
- RPWWN
- TNW
- NRPWW
- TNWW
- ISOlate
- RPW
- UPLAND
- RPWWD
- TNRPW

#### 11. Observed Fauna (make note of wildlife deterrents such as bird wires)
- List
- Invertebrates insects, X
- Birds red-winged blackbird, robin, X
- Mammals deer and raccoon tracks, X
- Reptile/Amphibian, X
- Fish, X

#### 12. Ditches entering stream:
- Tall grasses, forbs
- Lawn, maintained landscape
- Boulders/Rocks/Rip Rap
- Pavement, Structures, Gabions
- Other pipes

### Additional Comments
- flows south to WH East from a culvert under interstate bridge present north of confluence with WH East

---

**Datasheet entered by:** KAS  
**Last Revised:** 08/19
<table>
<thead>
<tr>
<th>Field ID: Stream ID</th>
<th>Stream Name:</th>
<th>Date: 8/27/2019</th>
<th>Time: 11:55 AM</th>
<th>Site: ORD</th>
<th>County: DuPage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stream Characterization</td>
<td>Willow Creek - Section 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Weather in the past 24 hours:**

- X Storm (heavy rain) Overcast
- Rain (steady rain) Clear/Sunny
- Showers (intermittent rain) N/A

5. **Circle flow regime:**

   - EPHEMERAL
   - INTERMITTENT
   - PERENNIAL

6. **Stream Velocity:**

   - X last
   - moderate
   - slow
   - N/A

7. **Nature of the particles in the stream bottom:**

   - sand
   - gravel
   - cobble (2-10" diam.)
   - boulder (>10" diam.)
   - bedrock

8. **Presence of naturally occurring organic material in stream:**

   - None
   - Little
   - Some
   - Most

9. **Water Appearance:**

   - sewage
   - milky
   - clear
   - foamy
   - turbid
   - light brown
   - dark brown
   - organic
   - oily sheen
   - none

10. **Weather in the past 24 hours:**

- Storm (heavy rain) Overcast
- Rain (steady rain) Clear/Sunny
- Showers (intermittent rain) N/A

11. **Presence of logs or large woody debris in stream:**

   - X None
   - Occasional
   - Plentiful

12. **Facing upstream, does this stream have tree cover for 50 feet on the:**

   - left side
   - right side

   - X yes
   - X yes

   - 10%
   - 40%

13. **Facing upstream, does this stream have shrub cover for 50 feet on the:**

   - left side
   - right side

   - X yes
   - X yes

14. **Describe the streamside cover. Check "P" if present, "C" if common:**

   - Left
     - Trees
     - X
     - Bushes, Shrubs
     - X
     - Tall grasses, forbs
     - X
     - Lawn, maintained landscape
     - X
     - Boulders/Rocks/Rip Rap
     - X
     - Gravel/Sand
     - X
     - Bare Soil
     - X
     - Pavement, Structures
     - X
   
   - Right
     - Trees
     - X
     - Bushes, Shrubs
     - X
     - Tall grasses, forbs
     - X
     - Lawn, maintained landscape
     - X
     - Boulders/Rocks/Rip Rap
     - X
     - Gravel/Sand
     - X
     - Bare Soil
     - X
     - Pavement, Structures
     - X

15. **In the vicinity of the stream, Check "P" if present, "C" if common:**

   - Natural Streamside plant cover degraded
   - Banks collapsed/eroded
   - Garbage/junk adjacent to the stream
   - Foam or sheen on bank
   - Mud, silt, or sand in or entering the stream
   - Garbage/junk in the stream
   - Yard waste on bank (clippings, leaves, etc.)
   - Livestock in or with unrestricted access
   - Actively discharging pipes
   - Other pipes
   - Ditches entering stream

16. **Ordinary High Water Mark Determination**

   **Check "P" if observed; Check "U" if used to determine OHWM**

   - Natural line impressed on the bank
   - Shelving
   - Changes in the character of soil
   - Destruction of terrestrial vegetation
   - Presence of litter and debris
   - Wracking
   - Vegetation matted down; bent, or absent
   - Sediment sorting
   - Leaf litter disturbed or washed away
   - Scour
   - Deposition
   - Multiple observed flow events
   - Bed and banks
   - Water staining
   - Change in plant community
   - Structures

17. **Waters Type**

   - DELINEATE
   - RPWW
   - x
   - TNW
   - NRPW
   - TNWW
   - ISOLATE
   - RPW
   - UPLAND
   - RPWWD
   - TNRPW

18. **Observed Fauna**

   - Invertebrates
   - Birds
   - Mammals
   - Reptile/Amphians
   - Fish

19. **Additional Comments**

   - Double box culverts at each end 10ft x 15ft; concrete walls

**Datasheet entered by:**

- Ditches entering stream
- X

**Last Revised:** 09/25
## Field ID: Stream/Ditch  Stream Name: Willow Creek-Section 2

<table>
<thead>
<tr>
<th>Date: 8/27/2019</th>
<th>Time: 10:45am</th>
<th>Site: ORD</th>
<th>County: DuPage</th>
</tr>
</thead>
</table>

### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): Clear/Sunny
- Showers (intermittent rain): No

### 1. a) Approximate depth of water in stream:
- N/A
- 2-3 ft

### 2. Plant Species Adjacent to stream (scientific name):
- Typha angustifolia, Phragmites australis,
- Sagittaria cuneata, Lythrum salicaria,
- Potomageton sp.

### 3. Stream habitats present:
- Pool(s): N/A
- Run(s): N/A

### 4. Stream Velocity:
- Fast
- Moderate
- Slow
- N/A

### 5. Nature of the particles in the stream bottom:
- None
- Little
- Some
- Most

### 6. Nature of the particles in the stream bottom:
- Sand
- Silt/clay/mud
- Gravel
- Cobles (2-10" diam.)
- Bedrock
- Boulders (>10" diam.)

### 7. Presence of naturally occurring organic material in stream:
- None
- Occasional
- Plentiful

### 8. Facing upstream, does this stream have tree cover for 50 feet on the:
- Left side: No
- Right side: No

### 9. Water Appearance:
- Clear/Sunny
- Rain (steady rain)
- Clear/Sunny
- Rain previous day and night
- Storm (heavy rain)

### 10. Water Odor:
- Clear
- Chocolates
- Fishy
- Turbid
- Rotten eggs
- Oily sheen
- Dark brown
- Other:

### 11. Presence of logs or large woody debris in stream:
- None
- Occasional
- Plentiful

### 12. Pick the category that best describes the extent to which vegetation shades the stream:
- 0%
- 25%
- 50%
- 75%
- 100%
- Other:

### 13. Pick the description that best fits the stream bank and the channel (facing upstream):
- Left
- Right

### 14. Describe the streamside cover. Check "P" if present, "C" if common:
- a) Along the water's edge and stream bank only (facing upstream):
  - Left
  - Right

### 15. In the vicinity of the stream, Check "P" if present, "C" if common:
- Left
- Right

### 16. Ordinary High Water Mark Determination

<table>
<thead>
<tr>
<th>P</th>
<th>U</th>
<th>Natural line impressed on the bank</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Shelving</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Changes in the character of soil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Destruction of terrestrial vegetation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Presence of litter and debris</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wrack</td>
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<tr>
<td></td>
<td></td>
<td>Vegetation matted down; bent, or absent</td>
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<td></td>
<td></td>
<td>Sediment sorting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Leaf litter disturbed or washed away</td>
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<td></td>
<td></td>
<td>Scour</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Deposition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Multiple observed flow events</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bed and banks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water staining</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Change in plant community</td>
</tr>
</tbody>
</table>

### 17. Waters Type
- DELINEATE
- TNW
- TNWW
- RPW
- RPWWD
- NRP
- NRPW
- ISOLATE
- UPLAND
- TNWRPW

### 18. Observed Fauna:
- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

### 19. Additional Comments:
- Concrete walls present for full length; bird wires present approx every 20 ft; double box culvert at south end. Approx 1.4" rain previous day and night. Silt fence along portion of west side silted in. 40ft culvert at north end.

### Datasheet entered by:
Last Revised: 09/25

---

**APPENDIX L**

**Chicago O'Hare International Airport**

**Draft Environmental Assessment**

**JUNE 2022**
### Stream Characterization

**Field ID:** Stream/Ditch

**Stream Name:** Willow Creek - Section 3

**Date:** 8/27/2019  
**Time:** 2:00pm  
**Field ID:** Willow Creek - Section 3  
**County:** Cook  
**Investigators:** BJH, CBM

#### Weather in the past 24 hours:
- **X Storm (heavy rain)** Overcast
- **Rain (steady rain)** X Clear/Sunny
- **Showers (intermittent rain)**

#### 1. Approximate depth of water in stream:
- **N/A**
- **2-3 ft**

#### 2. Plant Species Adjacent to stream (scientific name):
- **Phalaris arundinacea**
- **Phragmites australis**
- **Schoenoplectus tabernamontaneae**
- **Typha angustifolia**
- **Lythrum salicaria**
- **Dipsacus laciniatus**
- **Daucus carota (upland)**

#### 3. Circle flow regime:
- **EPHEMERAL PERENNIAL**

#### 4. Stream habitats present:
- **Pool(s)**
- **Run(s)**
- **Riffles(s)**
- **X N/A**

#### 5. Stream Velocity:
- **fast**
- **X moderate**
- **slow**
- **N/A**

#### 6. Nature of the particles in the stream bottom:
- **silt/clay/mud**
- **sand**
- **gravel**
- **cobble (2 - 10" diam.)**
- **bedrock**

#### 7. Presence of naturally occurring organic material in stream:
- **X Unknown**
- **X 0%**
- **X 50%**
- **X 100%**
- **X None**
- **X Occasional**
- **X Plentiful**

#### 8. Facing upstream, does this stream have tree cover for 50 feet on the:
- **left side**
- **right side**

#### 9. Water Appearance:
- **clear**
- **milky**
- **foamy**
- **turbid**
- **light brown**
- **dark brown**
- **green**
- **orange**
- **none**

#### 10. Water Odor:
- **sewage**
- **chlorine**
- **fishy**
- **rotten eggs**
- **organic**
- **oily sheen**
- **none**

#### 11. Presence of logs or large woody debris in stream:
- **X None**
- **Occasional**
- **Plentiful**

#### 12. Pick the category that best describes the extent to which vegetation shades the stream:
- **X 0%**
- **50%**
- **100%**
- **other - _____%**

#### 13. Pick the description that best fits the stream bank and the channel (facing upstream):
- **X Vertical/undercut**
- **X Steeply sloping (>30°)**
- **X Gradual/No slope (<30°)**

#### 14. Describe the streamside cover. Check "P" if present, "C" if common:
- **Along the water's edge and stream bank only (facing upstream):**
  - **X Trees**
  - **X Bushes, Shrubs**
  - **X Tall grasses, forbs**
  - **X Lawn, maintained landscape**
  - **X Boulders/Rocks/Rip Rap**
  - **X Gravel/Sand**
  - **X Bare Soil**
  - **X Pavement, Structures, Gabions**

- **From the top of the streambank out to 50 feet:**
  - **X Trees**
  - **X Bushes, Shrubs**
  - **X Tall grasses, forbs**
  - **X Lawn, maintained landscape**
  - **X Boulders/Rocks**
  - **X Gravel/Sand**
  - **X Bare Soil**
  - **X Pavement, Structures**

#### 15. In the vicinity of the stream, Check "P" if present, "C" if common:
- **X Natural Streamside plant cover degraded**
- **X Banks collapsed/eroded**
- **X Garbage/junk adjacent to the stream**
- **X Foam or sheen on bank**
- **X Mud, silt, or sand in or entering the stream**
- **X Garbage/junk in the stream**
- **X Yard waste on bank (clippings, leaves, etc.)**
- **X Livestock in or with unrestricted access**
- **X Actively discharging pipes**
- **X Other pipes**
- **X Ditches entering stream**

#### 16. Ordinary High Water Mark Determination

**Check "P" if observed; Check "U" if used to determine OHWM**

- **Natural line impressed on the bank**
- **Changes in the character of soil**
- **Presence of litter and debris**
- **Vegetation matted down; bent, or absent**
- **Sediment sorting**
- **Leaf litter disturbed or washed away**
- **Scour**
- **Deposition**
- **Multiple observed flow events**
- **Bed and banks**
- **Water staining**
- **Change in plant community**

#### 17. Waters Type
- **DELINEATE**
- **RPWNN**
- **TNW**
- **TNWW**
- **ISOLATE**
- **RPW**
- **RPWWD**
- **UPLAND**
- **TNWRPW**

#### 18. Observed Fauna (make note of wildlife deterrents such as bird wires)
- **List**
  - **Invertebrates**
  - **X dragonflies**
  - **X Insects**
  - **Birds**
  - **Mammals**
  - **X Reptile/Amphians**
  - **Frog**
  - **Fish**

#### 19. Additional Comments
- **double box culverts at north and south ends**

**Datasheet entered by:**  
**Last Revised: 09/25**
<table>
<thead>
<tr>
<th>Stream Characterization</th>
<th>Date: 7/29/2019</th>
<th>Time: 9am</th>
<th>Site: ORD TAP</th>
<th>County:</th>
<th>Cook</th>
</tr>
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<tbody>
<tr>
<td>Field ID: Stream Iditch</td>
<td>Stream Name: Willow Creek - Section 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

### Weather in the past 24 hours:
- Storm (heavy rain): Overcast
- Rain (steady rain): X Clear/Sunny
- Showers (intermittent rain): X

### Approximate depth of water in stream:
- N/A
- 12-24 inches

### Approximate width of water flow:
- N/A

### Approximate width of stream:
- (from top of bank to top of bank): 80 feet

### Approximate height of banks (channel depth):
- Left: 30 ft
- Right: 30 ft

### Presence of naturally occurring organic material in stream:
- Unknown
- None
- X Occasional

### Presence of logs or large woody debris in stream:
- X None
- Occasional
- Plentiful

### Presence of trees:
- Facing upstream, does this stream have tree cover for 50 feet on the:
  - Left side: No
  - Right side: No
  - What is the % cover of trees per side of the stream?
  - Left side: %
  - Right side: %

### Presence of shrubs:
- Facing upstream, does this stream have shrub cover for 50 feet on the:
  - Left side: No
  - Right side: No
  - What is the % cover of shrubs per side of the stream?
  - Left side: %
  - Right side: %

### Ordinary High Water Mark Determination
- Check "P" if observed; Check "U" if used to determine OHWM

### Waters Type
- DELINEATE
- NRPW
- TNW
- TNWW
- ISOLATE
- RPW
- RPWWD
- TNRWWP

### Observed Fauna (make note of wildlife deterents such as bird wires)
- List

### Additional Comments
- box culverts at either end (10x10ft, 12x12ft);
- side walls/banks supported by gabions walls approx 30ft high; water flowing;
- dominated by Phragmites; area inaccessible due to fencing, offset GPS

### Datasheet entered by: KAS
### Last Revised: 08/19
### Stream Characterization

**Field ID:** Stream/segment

**Stream Name:** Willow Creek - section 5

**Date:** Aug 2 & 12

**Time:** 4pm; 11am

**Site:** North airfield, gabion section

**County:** Cook

**Investigators:** BJH, CBM

#### Weather

- **Storm (heavy rain):** Overcast
- **Rain (steady rain):** Clear/Sunny
- **Showers (intermittent rain):** 
  - **Weather in the past 24 hours:**
    - 3. Circle flow regime: EPHEMERAL PERENNIAL
    - 4. Stream habitats present:
      - Pool(s) Run(s) 
      - riffles(s) N/A
    - 5. Stream Velocity:
      - fast moderate slow N/A
    - 6. Nature of the particles in the stream bottom:
      - silt/clay/mud sand gravel cobbles (2 - 10" diam.) bedrock
    - 7. Presence of naturally occurring organic material in stream:
      - None Little Some Most
    - 8. Facing upstream, does this stream have tree cover for 50 feet on the:
      - left side No right side no
    - 9. Water Appearance:
      - clear milky foamy light brown dark brown
      - chlorinated foamey organic oily sheen none
    - 10. Water Odor:
      - sewage milky chlorine fishy rotten eggs
    - 11. Presence of logs or large woody debris in stream:
      - X None Occasional Plentiful
    - 12. Pick the category that best describes the extent to which vegetation shades the stream:
      - X 0% 50% 100%
      - 25% other - _____%
    - 13. Pick the description that best fits the stream bank and the channel (facing upstream):
      - Left Vertical/undercut Steeply sloping (>30°)
      - Right Gradual/No slope (<30°)
    - 14. Describe the streamside cover. Check "P" if present, "C" if common:
      - Trees:
      - Bushes, Shrubs
      - Tall grasses, forbs
      - Lawn, maintained landscape
      - Boulders/Rocks/Rip Rap
      - Gravel/Sand
      - Bare Soil
      - Pavement, Structures, Gabions
      - X X
    - 15. In the vicinity of the stream, Check "P" if present, "C" if common:
      - Natural Streamside plant cover degraded
      - Banks collapsed/eroded
      - Garbage/junk adjacent to the stream
      - Foam or sheen on bank
      - Mud, silt, or sand in or entering the stream
      - Garbage/junk in the stream
      - Yard waste on bank (clippings, leaves, etc.)
      - Livestock in or with unrestricted access
      - Actively discharging pipes
      - Other pipes
      - Ditches entering stream
      - x x
    - 16. Ordinary High Water Mark Determination
      - Check "P" if observed; Check "U" if used to determine OHWM
      - Left Natural line impressed on the bank Shelving
      - Right Changes in the character of soil Destruction of terrestrial vegetation
      - Presence of litter and debris Wracking
      - Vegetation matted down; bent, or absent Sediment sorting
      - Leaf litter disturbed or washed away Scour
      - Deposition
      - Multiple observed flow events
      - Bed and banks Water staining
      - Change in plant community
    - 17. Waters Type
      - DELINEATE
      - TNW UPLAND
      - TPWD NRPWW
      - RPW
      - RPWW
      - RPWRP
    - 18. Observed Fauna (make note of wildlife deterrents such as bird wires)
      - List
      - Invertebrates
      - Birds
      - Mammals
      - Reptile Amphians
      - Fish
carp
    - 19. Additional Comments
      - gabion-lined, 25-30 ft tall; top of gabion mapped
      - vegetation on 2nd gabion tier approx. 10ft above stream

**Datasheet entered by:**

**Last Revised:** 09/25

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**Page 1 of 1**
**Stream Characterization**

**Stream Name:** Willow Creek - Section 6  
**Site:** ORD  
**County:** Cook  
**Investigators:** BJH

### Weather in the past 24 hours:
- Storm (heavy rain): X  
- Rain (steady rain): Clear/Sunny  
- Showers (intermittent rain): N/A

### Field Measurements:
1. **Approximate depth of water in stream:** 3-5 ft
2. **Approximate width of water flow:** 35 ft
3. **Approximate width of stream:** 75 ft
4. **Approximate height of banks (channel depth):** 10-15 ft left, right 15 ft
5. **Facing upstream, does this stream have tree cover for 50 feet on the:** left side no right side no
6. **Facing upstream, does this stream have shrub cover for 50 feet on the:** left side no right side yes
7. **Presence of naturally occurring organic material in stream:** Unkown
8. **Facing upstream, does this stream have tree cover for 50 feet on the:**
   - left side: no
   - right side: no
9. **Facing upstream, does this stream have shrub cover for 50 feet on the:**
   - left side: no
   - right side: yes
10. **Presence of logs or large woody debris in stream:** None
11. **Presence of logs or large woody debris in stream:** Occasional
12. **Presence of logs or large woody debris in stream:** Plentiful
13. **Presence of logs or large woody debris in stream:** N/A

### Vegetation:
- **Tree Species:** Salix interior
- **Understory:** Phragmites australis, Lythrum salicaria, Conium maculatum, What is the % cover of trees per side of the stream? a) Stream bank:
  - left side: 0%
  - right side: 0%

### Bed and Banks:
- **Sediment sorting:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absent:** None
- **Presence of litter and debris:** None
- **Wracking:** None
- **Vegetation matted down; bent, or absen**
<table>
<thead>
<tr>
<th>Field ID: Stream/Ditch</th>
<th>Stream Name: Willow Creek - Section 7</th>
<th>County: Cook</th>
<th>Cook</th>
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<td>Date: 7/30/2019</td>
<td>Time:</td>
<td>Site: ORD TAP</td>
<td>ORD</td>
</tr>
<tr>
<td>Weather in the past 24 hours:</td>
<td>Storm (heavy rain):</td>
<td>Overcast</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rain (steady rain):</td>
<td>Clear/Sunny</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Showers (intermittent rain):</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>1. Approximate depth of water in stream:</td>
<td>N/A</td>
<td>6 inches to 3 ft</td>
<td></td>
</tr>
<tr>
<td>2. Approximate width of water flow:</td>
<td>N/A</td>
<td>150 ft</td>
<td></td>
</tr>
<tr>
<td>3. Circle flow regime:</td>
<td>EPHEMERAL INTERMITTENT</td>
<td>PERENNIAL</td>
<td></td>
</tr>
<tr>
<td>4. Stream habitats present:</td>
<td>Pool(s):</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Run(s):</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>5. Stream Velocity:</td>
<td>fast</td>
<td>moderate</td>
<td>X slow</td>
</tr>
<tr>
<td>6. Nature of the particles in the stream bottom:</td>
<td>sand</td>
<td>gravel</td>
<td>X gravel</td>
</tr>
<tr>
<td>7. Presence of naturally occurring organic material in stream:</td>
<td>Unknown</td>
<td>X Occasional</td>
<td>Unknown</td>
</tr>
<tr>
<td>8. Facing upstream, does this stream have tree cover for 50 feet on the left side:</td>
<td>yes</td>
<td>right side:</td>
<td>yes</td>
</tr>
<tr>
<td>What is the % cover of trees per side of the stream?</td>
<td>left side:</td>
<td>20%</td>
<td>right side:</td>
</tr>
<tr>
<td>9. Water Appearance:</td>
<td>clear</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>10. Water Odor:</td>
<td>N/A</td>
<td>milky</td>
<td>chlorine</td>
</tr>
<tr>
<td>11. Presence of logs or large woody debris in stream:</td>
<td>X None</td>
<td>Occasional</td>
<td>Plentiful</td>
</tr>
<tr>
<td>12. Pick the category that best describes the extent to which vegetation shades the stream:</td>
<td>X 0%</td>
<td>25%</td>
<td>75%</td>
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<tr>
<td>13. Pick the description that best fits the stream bank and the channel (facing upstream):</td>
<td>Left</td>
<td>Vertical/undercut</td>
<td>Steeply sloping (&gt;30°):</td>
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<tr>
<td></td>
<td>Right</td>
<td>Gradual/No slope (&lt;30°):</td>
<td>X</td>
</tr>
</tbody>
</table>
| 14. Describe the streamside cover. | P | C | Check "P" if present, "C" if common:
| a) Along the water's edge and stream bank only (facing upstream): | X | Trees | Check "P" if observed; Check "U" if used to determine OHWM |
| | X | Bushes, Shrubs | |
| | X | Tall grasses, forbs | |
| | X | Lawn, maintained landscape | |
| | X | Boulders/Rocks/Rip Rap | |
| | X | Gravel/Sand | |
| | X | Bare Soil | |
| | X | Pavement, Structures, Gabions | |
| b) From the top of the streambank out to 50 feet: | X | Trees | |
| | X | Bushes, Shrubs | |
| | X | Tall grasses, forbs | |
| | X | Lawn, maintained landscape | |
| | X | Boulders/Rocks | |
| | X | Gravel/Sand | |
| | X | Bare Soil | |
| | X | Pavement, Structures | |
| 15. In the vicinity of the stream, Check "P" if present, "C" if common: | X | Natural Streamside plant cover degraded | |
| | X | Banks collapsed/eroded | |
| | X | Garbage/junk adjacent to the stream | |
| | X | Foam or sheen on bank | |
| | X | Mud, silt, or sand in or entering the stream | |
| | X | Garbage/junk in the stream | |
| | X | Yard waste on bank (clippings, leaves, etc.) | |
| | X | Livestock in or with unrestricted access | |
| | X | Actively discharging pipes | |
| | X | Other pipes | |
| | X | Ditches entering stream | |
| 16. Ordinary High Water Mark Determination | X | Natural line impressed on the bank | |
| | X | Shelving | |
| | X | Changes in the character of soil | |
| | X | Destruction of terrestrial vegetation | |
| | X | Presence of litter and debris | |
| | X | Wracking | |
| | X | Vegetation matted down; bent, or absent | |
| | X | Sediment sorting | |
| | X | Leaf litter disturbed or washed away | |
| | X | Scour | |
| | X | Deposition | |
| | X | Multiple observed flow events | |
| | X | Bed and banks | |
| | X | Water staining | |
| | X | Change in plant community | |
| 17. Waters Type | DELINEATE | RPWNN | |
| | TNW | NRPWW | |
| | TNWW | ISOLATE | |
| | RPW | UPLAND | |
| | RPWW | RPWPD | |
| 18. Observed Fauna (make note of wildlife deterrents such as bird wires) | List | Invertebrates | |
| | X | Birds | |
| | X | Mammals | |
| | X | Reptile/Amphians | |
| | X | Fish | |
| 19. Additional Comments | banks vegetated with some armoring 6-10 feet up south and north sides | |
| Datasheet entered by: | Last Revised: 08/19 | | |
### Stream Characterization

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Stream Name</th>
<th>Date: 7/30/2019</th>
<th>Site: Willow Creek - Section 8</th>
<th>County: Cook</th>
<th>Investigators: BJH, CBM</th>
</tr>
</thead>
</table>

#### Weather in the past 24 hours:
- Storm (heavy rain) / Overcast
- Rain (steady rain) / Clear/Sunny
- Showers (intermittent rain) / N/A

#### 1. Approximate depth of water in stream:
- 2-3 feet / N/A

#### 2. Approximate width of water flow:
- 50 ft / N/A

#### 3. Circle flow regime:
- EPHEMERAL
- INTERMITTENT
- PERENNIAL

#### 4. Stream habitats present:
- Pool(s) / X
- Run(s) / N/A

#### 5. Stream habitats present:
- riffles(s) / N/A

#### 6. Nature of the particles in the stream bottom:
- sand / N/A
- gravel / N/A
- cobbles (2 - 10" diam.) / X
- boulders (> 10" diam.) / X

#### 7. Presence of naturally occurring organic material in stream:
- None / X
- Little / Some / Most

#### 8. Facing upstream, does this stream have tree cover for 50 feet on the:
- left side / no
- right side / no

#### 9. Water Appearance:
- clear / N/A
- milky / N/A
- turbid / N/A
- foamy / N/A
- light brown / N/A
- dark brown / N/A
- oily sheen / N/A

#### 10. Water Odor:
- sewage / N/A
- fishy / N/A
- rotten eggs / N/A
- other: / N/A

#### 11. Presence of logs or large woody debris in stream:
- X / None
- Occasional / Plentiful

#### 12. Pick the category that best describes the extent to which vegetation shades the stream:
- 0% / X
- 25%
- 50%
- 75%
- 100%
- Other: _____%

#### 13. Pick the description that best fits the stream bank and the channel (facing upstream):
- Left bank:
  - Vertical/undercut / X
  - Steeply sloping (>30°)
  - Gradual/No slope (<30°)

- Right bank:
  - Narrow, Deep
  - Wide, Deep
  - Narrow, Shallow
  - Wide, Shallow / X

#### 14. Describe the streamside cover. Check "P" if present, "C" if common:
- Trees:
  - left: P
  - right: C
- Bushes, Shrubs
- Tall grasses, forbs
- Lawn, maintained landscape
- Boulders/Rocks/Rip Rap
- Gravel/Sand
- Bare Soil
- Pavement, Structures, Gabions

#### 15. In the vicinity of the stream, Check "P" if present, "C" if common:
- Natural Streamside plant cover degraded
- Banks collapsed/eroded
- Garbage/junk adjacent to the stream
- Foam or sheen on bank
- Mud, silt, or sand in or entering the stream
- Yard waste on bank (clippings, leaves, etc.)
- Livestock in or with unrestricted access
- Actively discharging pipes
- Other pipes
- Ditches entering stream

### Ordinary High Water Mark Determination

#### Check "P" if observed; Check "U" if used to determine OHWM:
- Natural line impressed on the bank
- Shelving
- Changes in the character of soil
- Debris
- Presence of litter and debris
- Wracking
- Vegetation matted down; bent, or absent
- Sediment sorting
- Leaf litter disturbed or washed away
- Scour
- Deposition
- Multiple observed flow events
- Bed and banks
- Water staining
- Change in plant community

#### Waters Type:
- DELINEATE / RPWNN
- TNW / NRPW
- TNW / NRPW
- RPW / UPLAND
- RPWWD / TNWRPW

#### Observed Fauna (make note of wildlife deterrents such as bird wires):
- Invertebrates
- Birds
- Mammals
- Reptile/Amphians
- Fish

#### Additional Comments:
- concrete walled

---

Datasheet entered by: CookORD TAP

Last Revised: 08/19
### Stream Characterization

**Field ID:** Stream Bank  
**Stream Name:** Willow Creek - section 9

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
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<tbody>
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<td>Date</td>
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</tr>
<tr>
<td>Time</td>
<td>AM</td>
</tr>
<tr>
<td>Site</td>
<td>ORD</td>
</tr>
<tr>
<td>County</td>
<td>Cook</td>
</tr>
<tr>
<td>Investigators</td>
<td>BJH, KAS</td>
</tr>
</tbody>
</table>

#### Weather in the past 24 hours:
- Storm (heavy rain) Overcast
- Rain (steady rain) Clear/Sunny
- Showers (interrupted rain) X

#### Water Appearance:
- Clear
- Milky
- Foamy
- Turbid
- Light brown
- Organic
- Yellow
- Greenish
- Other

#### Water Odor:
- Sewage
- Fishy
- Rotten eggs
- Organic
- Other

#### Stream Bank:
- **Left:**
  - Approximate depth of water in stream: 6 inches to 3 feet
  - Approximate width of water flow: 45-70 feet
  - Approximate depth of pool(s): Unknown
  - Approximate width of stream: 120 feet
  - Approximate height of banks (channel depth): 20 ft
  - Presence of naturally occurring organic material in stream: None
  - Presence of pools: None
  - Presence of riffles: None

#### Plant Species Adjacent to stream (scientific name):
- Asclepias syriaca
- Solidago canadensis
- Phalaris arundinacea
- Leucanthemum vulgare
- Polygonum sp.
- Glechoma hederaceae
- Pastinica sativa

#### Stream habitats present:
- Pool(s)
- Run(s)
- Channel

#### Stream characterization:
- **Nature of the particles in the stream bottom:**
  - Silt/clay/mud
  - Sand
  - Gravel
  - Cobble (2-10" diam.)
  - Boulders (>10" diam.)
  - Bedrock

#### Presence of logs or large woody debris in stream:
- None
- Occasional
- Plentiful

#### Ordinary High Water Mark Determination:
- **Left:**
  - Approximate depth of pool(s): Unknown
  - Presence of naturally occurring organic material in stream: None
  - Presence of pools: None
  - Presence of riffles: None
  - Presence of logs or large woody debris in stream: None

**Datasheet entered by:** Last Revised: 08/19

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**Additional Comments:**
- Steep sided, top of bank vegetated; wracking obvious 1-2 ft high on bank, tributary from north flows into WH East at bridge, banks range from sloped and muddy to vertical with minimal undercutting.

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**Draft Environmental Assessment**

**JUNE 2022**
Appendix K. Field Photographs
Photo 1. Bensenville Ditch - Section 1, General site

Photo 2. Bensenville Ditch - Section 1, General site, View to the southeast

Photo 3. Bensenville Ditch - Section 1, Box culvert. View to the southwest

Photo 4. Bensenville Ditch - Section 2, General site, east end. View to the west
Photo 5. Bensenville Ditch - Section 2, General site, west end. View to the east

Photo 6. Bensenville Ditch - Section 2, General site, west end. View to the west

Photo 7. Bensenville Ditch - Section 2, East end, double culvert exit. View to the east

Photo 8. Bensenville Ditch - Section 2, East end, double culvert. View to the north
Photo 9. Bensenville Ditch - Section 2, General site, side culvert. View to the north

Photo 10. Crystal Creek - Section 1, General site, View to the south

Photo 11. Crystal Creek - Section 1, General site, outfall. View to the north

Photo 12. Crystal Creek - Section 1, General site, View to the south
Photo 13. Crystal Creek - Section 1, General site, View to the north

Photo 14. Crystal Creek - Section 2, General site, View to the south

Photo 15. Crystal Creek - Section 2, General site, View to the north

Photo 16. Crystal Creek - Section 2, General site, culvert exit. View to the southeast
Photo 17. Crystal Creek - Section 3, General site, View to the north

Photo 18. Crystal Creek - Section 3, Box culvert under Manheim Road

Photo 19. Crystal Creek - Section 4, General site, View to the north

Photo 20. Crystal Creek - Section 4, General site, boom. View to the southeast
Photo 21. Crystal Creek - Section 4, Box culvert under I294. View to the east

Photo 22. Crystal Creek - Section 4, Culvert View to the north

Photo 23. Crystal Creek - Section 4, General site, View to the south

Photo 24. Crystal Creek - Section 4, General site, View to the north
Photo 25. Ditch 01, South culvert, View to the east

Photo 26. Ditch 01, General site, View to the south

Photo 27. Ditch 01, South culvert, View to the west

Photo 28. Ditch 01, General site, View to the north
Photo 29. Ditch 02, General site, View to the south

Photo 30. Ditch 02, General site, View to the east

Photo 31. Ditch 03, General site, View to the east

Photo 32. Ditch 03, General site, View to the west
Photo 33. Ditch 03, East culvert

Photo 34. Ditch 03, West culvert

Photo 35. Ditch 04, General site, north section. View to the north

Photo 36. Ditch 04, General site, south section. View to the north