# AGENDA

Save the Sound and West River Watershed Coalition  
Stream Assessment Training Workshop  

Common Ground School  

**June 22, 2015**  
8:30 a.m. to 12:30 p.m.  

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 a.m.</td>
<td>Welcome</td>
<td>Kendall Barbery, Save the Sound</td>
</tr>
<tr>
<td>8:40 a.m.</td>
<td><strong>Indoor Training Session</strong></td>
<td>Seth Lerman and Todd Bobowick, Conn. NRCS</td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>Travel to Outdoor Training Site</td>
<td></td>
</tr>
<tr>
<td>10:15 a.m.</td>
<td><strong>Outdoor Training Session: Wintergreen Brook</strong></td>
<td></td>
</tr>
<tr>
<td>12:00 - 12:30 p.m.</td>
<td>Return to Common Ground School</td>
<td>Lunch and Reach Assignments</td>
</tr>
</tbody>
</table>
West River Watershed  
Stream Assessments  
Work Plan  

Streams/ Subwatersheds to Assess  

Streams/ subwatersheds with identified water quality issues (i.e., impairments) were selected for the stream assessments. Stream assessments are proposed in the more heavily-developed, lower half of the West River watershed (see attached maps). One reach was also selected in the upper part of the watershed, along the Sargent River, where water quality is very good. This reach will serve as a baseline or reference reach.

1. Lower West River: 6.67 miles  
2. Wilmot Brook: 5.2 miles  
   a. Farm Brook: 3.8 miles  
3. Belden Brook: 3.3 miles  
4. Wintergreen Brook: 5.2 miles  
5. Beaver Brook: 0.61 miles  
6. Sargent River: 1.10 miles  

Assessment Reaches  

Refer to attached maps and summary table for proposed stream reaches. Reaches were defined based on the following general criteria:

- At least one convenient access point from a road  
- Located between major road crossings or a transition between significant land use change (generally include culverts with the associated downstream reach)  
- Relatively homogeneous land use  
- Separate reaches defined at confluence of two streams  
- Reasonably accessible (check for private property)

NRCS Stream Visual Assessment  

Stream Assessment Elements  

- Channel condition  
- Canopy cover  
- Hydrological alteration  
- Water appearance  
- Bank conditions  
- Presence of waste  
- Riparian quantity  
- Pools  
- Riparian quality  
- Barriers to aquatic species migration
A “Reach Level Assessment” form will be completed for each reach. In addition, separate “Area of Concern” forms will be completed for problems observed in each reach, including:
- Degraded buffers
- Erosion
- Fish barriers
- Manipulated channel
- Stormwater outfalls
- Trash-debris
- Water conditions

**Recommended Materials, Equipment, and Staffing**

<table>
<thead>
<tr>
<th>Item</th>
<th>Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapping</td>
<td>GIS subwatershed maps</td>
</tr>
<tr>
<td></td>
<td>Street maps</td>
</tr>
<tr>
<td>Equipment</td>
<td>Waders</td>
</tr>
<tr>
<td></td>
<td>Tape measure</td>
</tr>
<tr>
<td></td>
<td>Digital camera, extra batteries</td>
</tr>
<tr>
<td></td>
<td>GPS unit (Commercial grade)</td>
</tr>
<tr>
<td></td>
<td>Pencils, notebook, clipboard</td>
</tr>
<tr>
<td></td>
<td>Cell phone</td>
</tr>
<tr>
<td></td>
<td>Spray paint</td>
</tr>
<tr>
<td></td>
<td>Clippers</td>
</tr>
<tr>
<td>Data Forms</td>
<td>Impact Forms</td>
</tr>
<tr>
<td></td>
<td>Reach Assessment Form</td>
</tr>
<tr>
<td></td>
<td>Photo Inventory</td>
</tr>
<tr>
<td></td>
<td>Notification Letter</td>
</tr>
<tr>
<td>Staffing</td>
<td>1 or more teams of 2 people</td>
</tr>
</tbody>
</table>

**Survey Logistics**

1. Where practical, start at downstream end of the reach and walk up the stream corridor.
2. Convention is to face downstream when determining problems for the left and right stream bank.
3. As individual impact sites are encountered, they are mapped (sketched and GPS coordinates obtained) and photographed, and an appropriate "Area of Concern" form completed.
4. Draw the location and ID number for each impact site on the reach diagram located on the Reach Level Assessment form.
5. After team walks the entire survey reach, record the general impression of reach conditions on the Reach Level Assessment form.
6. When conditions vary considerably within a reach, the reach should be split up into more uniform segments.
General Safety and Responsibility

1. Plan each reach access location and vehicle drop off and pick up sites beforehand.
2. It is recommended to leave a volunteer letter on the dashboard of any cars left unattended while doing the stream survey.
3. Respect private property rights. If a landowner asks what you are doing, cordially inform them of your activities. If you are requested to leave the property, please do so. Information sheets with contact information are included in each packet for the landowner’s information as needed.
4. The stream survey is intended to be informative and fun. If for any reason you are uncomfortable with landowner relations or stream conditions, move to another segment of the reach.
# West River Watershed Stream Assessment Reaches

<table>
<thead>
<tr>
<th>Watercourse</th>
<th>Reach Name</th>
<th>Start - End</th>
<th>Miles</th>
<th>Total Reach Length/ Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower West River</td>
<td>LW1</td>
<td>Confluence LIS to Spring Street</td>
<td>0.68</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LW2</td>
<td>Spring Street to Route 1</td>
<td>0.95</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LW3 (Reflecting Pool)</td>
<td>Just north of Route 1, east of river</td>
<td>0.88</td>
<td>Separate waterbody</td>
</tr>
<tr>
<td></td>
<td>LW4</td>
<td>Just north of Route 1 to Derby</td>
<td>0.95</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LW5</td>
<td>Derby Ave./ Route 34 to Blake Street</td>
<td>1.27</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LW6</td>
<td>Blake Street to Lily Pond</td>
<td>1.40</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LW7</td>
<td>North confluence of Lily Pond to Konoids Pond</td>
<td>0.54</td>
<td>Total: 6.67</td>
</tr>
<tr>
<td>Un-named Tributary</td>
<td>ALW1</td>
<td>Confluence with Lower West River</td>
<td>0.28</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ALW2</td>
<td>Confluence with ALW1: splits south</td>
<td>0.52</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ALW3</td>
<td>Confluence with ALW1: splits north</td>
<td>0.86</td>
<td>Total: 1.65</td>
</tr>
<tr>
<td>Beaver Brook</td>
<td>BB1</td>
<td>North of Blake Street to Impoundment</td>
<td>0.61</td>
<td>Total: 0.61</td>
</tr>
<tr>
<td>Wilmot Brook</td>
<td>WLB1</td>
<td>East of Catherine's Way to Woodin St.</td>
<td>0.52</td>
<td>Extensive wetland with stream embedded. May not be walkable.</td>
</tr>
<tr>
<td></td>
<td>WLB2</td>
<td>Woodin Street to North of Rt. 15</td>
<td>0.95</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WLB3</td>
<td>Lane Street to Benham Street</td>
<td>0.57</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WLB4</td>
<td>Benham Street to Howard Road</td>
<td>1.43</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WLB5</td>
<td>Howard Road to end</td>
<td>.90</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WLB5A</td>
<td>Hill Street to Impoundment</td>
<td>.81</td>
<td>Total 5.20</td>
</tr>
<tr>
<td>Farm Brook</td>
<td>FB1</td>
<td>Morgan Lane to Benham Street</td>
<td>0.59</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FB2</td>
<td>Benham Street to Autumn Ridge Rd.</td>
<td>1.31</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FB3</td>
<td>Autumn Ridge Rd. to Farm Brook Reservoir</td>
<td>1.37</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FB4</td>
<td>Farm Brook Reservoir to end.</td>
<td>0.48</td>
<td>Total: 3.7</td>
</tr>
</tbody>
</table>
### West River Watershed Stream Assessment Reaches (continued)

<table>
<thead>
<tr>
<th>Watercourse</th>
<th>Reach Name</th>
<th>Start - End</th>
<th>Miles</th>
<th>Total Reach Length/ Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Belden Brook</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLB1</td>
<td>East of Winslow Field at Confluence of Wintergreen Brook to Woodin St.</td>
<td>0.39</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLB2</td>
<td>Woodin St. to Wintergreen Ave.</td>
<td>0.57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLB3</td>
<td>Wintergreen Ave. to Benham St.</td>
<td>0.89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLB4</td>
<td>Benham St. to Main Street</td>
<td>1.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLB5</td>
<td>Main Street to end</td>
<td>0.44</td>
<td>Total 3.34</td>
<td></td>
</tr>
<tr>
<td><strong>Wintergreen Brook</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WB1</td>
<td>Westville Village Apts. to Wintergreen Ave.</td>
<td>1.17</td>
<td>Confluence with West River may be inaccessible behind apartments. Start at Blake Street if necessary</td>
<td></td>
</tr>
<tr>
<td>WB2</td>
<td>Wintergreen Ave. to Crossing at West Rock Nature Center</td>
<td>1.14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WB3</td>
<td>West Rock Nature Ctr. to Lake Wintergreen</td>
<td>0.53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WB4</td>
<td>North of Lake Wintergreen to Mountain Road</td>
<td>1.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WB5</td>
<td>Mountain Road to end</td>
<td>0.93</td>
<td>Total 5.23</td>
<td></td>
</tr>
<tr>
<td><strong>Sargent River</strong></td>
<td>Reference</td>
<td>1.10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code: Date(s):  
Name of Stream: Assessed By:  
Reach Code:  
Designated Stream Type:  

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  □ Yes  □ No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Morphology</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Step-Pool</td>
<td>□ Pool-Riffle</td>
<td>□ Run</td>
<td>□ Glide</td>
<td>*□ Manipulated Channel (piped, lined, etc.)</td>
<td></td>
</tr>
</tbody>
</table>

Active Channel Width:  
Riffle Depth:  
Pool Depth:  
Run Depth:  

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Substrate</th>
<th>&lt;5%</th>
<th>5-25%</th>
<th>25-50%</th>
<th>50-75%</th>
<th>&gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bedrock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Describe Water Conditions:** Mark all that apply.

<table>
<thead>
<tr>
<th>Condition</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Clear</td>
<td>□ Stained (“iced tea”)</td>
<td>*□ Turbid (muddy / silty)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Green</td>
<td>*□ Rusty-Red</td>
<td>*□ Milky</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*□ Odors</td>
<td>*□ Other (foam, dyes, chemicals)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aquatic Plants in Stream:**

<table>
<thead>
<tr>
<th>Plant Type</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. duck weed)</td>
<td>Absent</td>
<td>In Spots</td>
<td>Everywhere</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attached: (e.g. water lily)</td>
<td>Absent</td>
<td>In Spots</td>
<td>Everywhere</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Algae in Stream:**

<table>
<thead>
<tr>
<th>Algae Type</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. planktonic)</td>
<td>Absent</td>
<td>In Spots</td>
<td>Everywhere</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attached: (e.g. filamentous)</td>
<td>Absent</td>
<td>In Spots</td>
<td>Everywhere</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<table>
<thead>
<tr>
<th>Percentage Covered</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□ &gt;75% covered</td>
<td>□ 75-50% covered</td>
<td>□ 50%-25% covered</td>
<td>□ &lt; 25% covered</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
## Riparian Vegetation
Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

## Surrounding Land Use
Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suburban Residential</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agricultural</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forested</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban Residential</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recreational</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Areas of Concern Checklist
Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there evidence of either stream bank erosion or streambed instability within the reach?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Are there any dams or any other possible natural or artificial barriers to fish migration?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:________.</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Is there any portion of the reach that has a change in water conditions?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
</tbody>
</table>

## Notes
Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
## CT-NRCS

### Stream Assessment Sheet

#### Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
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<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Rural Residential</td>
<td>□ Agricultural</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>□ Suburban Residential</td>
<td>□ Forested</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>□ Urban Residential</td>
<td>□ Recreational</td>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>□ Industrial</td>
<td>□ Other</td>
<td>□ Industrial</td>
</tr>
<tr>
<td>□ Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach?  
  - □ Yes  □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration?  
  - □ Yes  □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach?  Indicate the number observed:________.
  - □ Yes  □ No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?:  
  - □ Yes  □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?  
  - □ Yes  □ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?  
  - □ Yes  □ No
- Is there any portion of the reach that has a change in water conditions?  
  - □ Yes  □ No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

---

**Developed By:** CT-NRCS  
**January 2008**
CT – NRCS  
Stream Assessment Worksheet  
Visual Water Conditions /  
Excessive Plant or Algae Growth

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the **map**. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

- Rural Residential
- Urban Residential
- Commercial
- Forested
- Suburban Residential
- Industrial
- Agricultural
- Recreational

**Describe Water Conditions:** Mark all that apply.

- Clear
- Stained (“iced tea”)
- Turbid (muddy / silty)
- Odors
- Green
- Rusty-Red
- Milky
- Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

- > 75% covered
- 75-50% covered
- 50%-25% covered
- < 25% covered

**Aquatic Plants in Stream:**

- Floating: (e.g. duck weed)  □ Absent □ In Spots □ Everywhere
- Attached: (e.g. water lily) □ Absent □ In Spots □ Everywhere

**Algae in Stream:**

- Floating: (e.g. planktonic) □ Absent □ In Spots □ Everywhere
- Attached: (e.g. filamentous) □ Absent □ In Spots □ Everywhere

| Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall? | □ Yes □ No |
| Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)? | □ Yes □ No |
| Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream? | □ Yes □ No |

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
**CT – NRCS**  
*Stream Assessment Worksheet*  

**Trash / Debris**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- [ ] Within Stream  
- [ ] Riparian Area:  
- [ ] Left Bank  
- [ ] Right Bank

<table>
<thead>
<tr>
<th>Type:</th>
<th>[ ] Residential</th>
<th>[ ] Commercial</th>
<th>[ ] Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>[ ] Plastic</td>
<td>[ ] Tires</td>
<td>[ ] Appliances</td>
</tr>
<tr>
<td></td>
<td>[ ] Paper</td>
<td>[ ] Metal</td>
<td>[ ] Automotive</td>
</tr>
<tr>
<td></td>
<td>[ ] Yard Waste</td>
<td>[ ] Construction</td>
<td>[ ] Medical</td>
</tr>
<tr>
<td>Source:</td>
<td>[ ] Unknown</td>
<td>[ ] Flooding</td>
<td>[ ] Illegal Dumping</td>
</tr>
<tr>
<td>Land Ownership:</td>
<td>[ ] Private</td>
<td>[ ] Public</td>
<td>[ ] Unknown</td>
</tr>
<tr>
<td></td>
<td>[ ] Other</td>
<td>[ ] Other</td>
<td>[ ] Other</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
# CT – NRCS
## Stream Assessment Worksheet

### Degraded Buffer

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

- Mark where the degraded buffer occurs.
  - Meander Bend
  - Straight Section
  - Steep Slope/Valley Wall
  - Other
  - Left Bank
  - Right Bank

- Estimate length of degraded buffer: ___ ft.

**Type of Degradation:**

- Left Bank:
  - Minimal Vegetation
  - Minimal Width
  - Invasive Plants
  - Other
- Right Bank:
  - Minimal Vegetation
  - Minimal Width
  - Invasive Plants
  - Other

**Dominate Land Cover**

<table>
<thead>
<tr>
<th>Domain Land Cover</th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

- Left Bank:
  - Rural Residential
  - Suburban Residential
  - Urban Residential
  - Industrial
  - Commercial
  - Agricultural
  - Forested
  - Recreational
- Right Bank:
  - Rural Residential
  - Suburban Residential
  - Urban Residential
  - Industrial
  - Commercial
  - Agricultural
  - Forested
  - Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

- Left Bank:
  - < 15 ft.
  - 15 – 35 ft.
  - 35 – 50 ft.
  - 50 – 100 ft
  - > 100 ft
- Right Bank:
  - < 15 ft.
  - 15 – 35 ft.
  - 35 – 50 ft.
  - 50 – 100 ft
  - > 100 ft

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
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<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where erosion is occurring:**

- [ ] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

- **Length:**
  - Left Bank: [ ] ft.
  - Right Bank: [ ] ft.
- **Bank Height:**
  - Left Bank: [ ] ft.
  - Right Bank: [ ] ft.
- **Bank Angle:**
  - Left Bank: [ ] deg.
  - Right Bank: [ ] deg.

**What is the proximity of the erosion site to infrastructure** (e.g. road, bridge, building, etc.)?

- [ ] < 15 ft.
- [ ] 15 - 30 ft
- [ ] 30 - 45 ft
- [ ] 45 – 60 ft
- [ ] 60 - 100 ft
- [ ] > 100 ft

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.

- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.

- [ ] Public
- [ ] Private
- [ ] Unknown

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.

- [ ] < 15 ft.
- [ ] 15 – 35 ft.
- [ ] 35 – 50 ft.
- [ ] 50 – 100 ft
- [ ] > 100 ft

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
# CT – NRCS
Stream Assessment Worksheet

## Fish Barrier

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing **_Downstream_

**Location of Barrier:** Mark and label the location of the barrier on the _map_ and provide a brief description of the location of the barrier relative to roads or other landmarks.

**Type of Barrier:** Mark the type of fish barrier.

- [ ] Dam
- [ ] Culvert
- [ ] Velocity Barrier
- [ ] Other

**Dam Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Height of Dam: ft.</th>
<th>Length of Spillway: ft.</th>
<th>Shape of Spillway: [ ] Straight [ ] Crescent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- [ ] Stone
- [ ] Concrete
- [ ] Stone & Concrete
- [ ] Timber-Crib
- [ ] Other

**Is there other infrastructure associated with the Dam?**

- [ ] No
- [ ] Yes (If yes mark the type below)

- [ ] Factory
- [ ] Hydro Facility
- [ ] Mill
- [ ] Residence
- [ ] Other

**Culvert Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Type of Culvert:</th>
<th></th>
</tr>
</thead>
</table>
- [ ] Box
- [ ] Pipe
- [ ] Pipe-Arch
- [ ] Arch

<table>
<thead>
<tr>
<th>Culvert Material:</th>
<th></th>
</tr>
</thead>
</table>
- [ ] Concrete
- [ ] Corrugated Metal
- [ ] Plastic
- [ ] Stone

<table>
<thead>
<tr>
<th>Culvert Outlet:</th>
<th></th>
</tr>
</thead>
</table>
- [ ] Perched:………… ft.
- [ ] Ramped
- [ ] Submerged

<table>
<thead>
<tr>
<th>Culvert Size:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter:</td>
<td>ft.</td>
</tr>
<tr>
<td>Height:</td>
<td>ft.</td>
</tr>
<tr>
<td>Width:</td>
<td>ft.</td>
</tr>
<tr>
<td># of Culverts:</td>
<td></td>
</tr>
</tbody>
</table>

| Culvert Length: ft.       |                                   |

**Velocity Barrier Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Nature of Barrier:</th>
<th></th>
</tr>
</thead>
</table>
- [ ] Grade Control Sill
- [ ] Concrete Apron
- [ ] Channel Cross-Section
- [ ] Other


**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

---

Developed By: CT-NRCS
January 2008
<table>
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<tr>
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<tr>
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</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

**Mark where channel modification occurs:**
- Meander Bend
- Straight Section
- Steep Slope/Valley Wall
- Other

**Estimate length of channel modification:** ft.

**Estimate height of bank modification:** ft.

**Type of Manipulation:**
- Channelization
- Bank Armoring
- Concrete Channel
- Other

**Extent of Manipulation:**
- Right Bank
- Left Bank
- Channel Bottom

**Channel / Bank Materials:**
- Natural
- Rip Rap
- Concrete
- Gabions
- Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- Rural Residential
- Urban Residential
- Commercial
- Forested
- Suburban Residential
- Industrial
- Agricultural
- Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.
- < 15 ft.
- 15 – 35 ft.
- 35 – 50 ft.
- 50 – 100 ft
- > 100 ft

**Is there a change in the average width of the active channel?**
- Yes
- No

**Estimate Width:** ft.

**Is there evidence of sediment deposition in the channel?**
- Yes
- No

**Is the channel connected to a floodplain?**
- Yes
- No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
## CT – NRCS
### Stream Assessment Worksheet

**Storm Water Outfall**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
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<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:**
- [ ] Right Bank
- [ ] Left Bank
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

### Outfall Type:
- [ ] Pipe
- [ ] Leak Off
- [ ] Channel

### Flow:
- [ ] None
- [ ] Trickle
- [ ] Moderate
- [ ] Substantial

### Odor:
- [ ] None
- [ ] Sewage
- [ ] Rancid / Sour
- [ ] Sulfur (rotten eggs)

### Deposits / Stains:
- [ ] None
- [ ] Sediment Delta
- [ ] Oily Stain
- [ ] Black

### Benthic Growth:
- [ ] None
- [ ] Brown
- [ ] Green
- [ ] Orange

**Pipe Data:** Provide all relevant data.

### Pipe Material:
- [ ] Concrete
- [ ] Corrugated Metal
- [ ] Plastic
- [ ] Other

### Contributing Source(s):
- [ ] Road
- [ ] Parking Lot
- [ ] Other
- [ ] Unknown

### Pipe Outlet:
- [ ] Perched
- [ ] Ramped
- [ ] At Stream Level

### Pipe Size:
- Diameter: __________ ft.
- # of Pipes: 
  - [ ] 1
  - [ ] 2
  - [ ] 3 +

**Leak-Off Data:** Provide all relevant data.

### Leak-Off Swale:
- [ ] Concrete
- [ ] Asphalt
- [ ] Stone
- [ ] Earthen

### Contributing Source(s):
- [ ] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [ ] Other
- [ ] Unknown

### Length of Swale: __________ ft.

### Width of Swale: __________ ft.

**Channel Data:** Provide all relevant data.

### Channel Material:
- [ ] Concrete
- [ ] Asphalt
- [ ] Stone
- [ ] Earthen

### Contributing Source(s):
- [ ] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [ ] Other
- [ ] Unknown

### Channel Length: __________ ft.

### Channel Width: __________ ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
Completed Stream Assessment Forms
Un-named Tributary ALW
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code: Date(s): 7/28 8/30 - 9/25
Name of Stream: Assessed By: GH RE
Reach Code: 1
Designated Stream Type:

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed? ☑ Yes ☐ No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

☐ Step-Pool ☐ Pool-Riffle ☐ Run ☐ Glide ☐ Manipulated Channel (piped, lined, etc.)
Active Channel Width: 15 ft
Glide Depth: 8 ft
Riffle Depth: Step Height:
Pool Depth: Bank Height (Right Bank):
Run Depth: Bank Height (Left Bank):

Substrate Composition: Mark approximate percentages for each substrate type observed.

☐ Silt or Clay ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Sand ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Gravel (0.1-2 inches) ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Cobble (2-10 inches) ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Boulder (>10 inches) ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Bedrock ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%

Describe Water Conditions: Mark all that apply.

☐ Clear ☐ Stained (“iced tea”) ☐ Turbid (muddy / silty)
☐ Green ☐ Rusty-Red ☐ Milky
☐ Odors ☐ Other (foam, dyes, chemicals)

Aquatic Plants in Stream:

Floating: (e.g. duck weed) Absent ☐ In Spots ☐ Everywhere
Attached: (e.g. water lily) Absent ☐ In Spots ☐ Everywhere

Algae in Stream:

Floating: (e.g. planktonic) Absent ☐ In Spots ☐ Everywhere
Attached: (e.g. filamentous) Absent ☐ In Spots ☐ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

☐ >75% covered ☐ 75-50% covered ☐ 50-25% covered ☐ <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
### Riparian Vegetation

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

### Surrounding Land Use

<table>
<thead>
<tr>
<th></th>
<th>&lt; ½ Mile from stream</th>
<th>&gt; ½ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Rural Residential</td>
<td>□ Agricultural</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>□ Suburban Residential</td>
<td>□ Forested</td>
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<tr>
<td>□ Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

### Areas of Concern Checklist

- Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: [ ]
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? □ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? □ Yes □ No
- Is there any portion of the reach that has a change in water conditions? □ Yes □ No

### Notes

Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
CT – NRCS  
Stream Assessment Worksheet

Modified Channel

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>7/28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>ALW-1</td>
<td></td>
</tr>
<tr>
<td>Reach Code:</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

- ENTIRE CATCHMENT LIKELY MODIFIED

**Mark where channel modification occurs:**
- ☐ Meander Bend
- ☑ Straight Section
- ☐ Steep Slope/Valley Wall
- ☐ Other

**Estimate length of channel modification:** ft. | 8.28 |

**Estimate height of bank modification:** ft.

**Type of Manipulation:**
- ☑ Channelization
- ☐ Bank Armoring
- ☐ Concrete Channel
- ☐ Other

**Extent of Manipulation:**
- ☑ Right Bank
- ☑ Left Bank
- ☐ Channel Bottom

**Channel / Bank Materials:**
- ☑ Natural
- ☐ Rip Rap
- ☐ Concrete
- ☐ Gabions
- ☐ Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- ☐ Rural Residential
- ☐ Urban Residential
- ☑ Commercial
- ☑ Forested
- ☐ Suburban Residential
- ☑ Industrial
- ☐ Agricultural
- ☐ Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

- ☑ < 15 ft.
- ☐ 15 – 35 ft.
- ☐ 35 – 50 ft.
- ☑ 50 – 100 ft
- ☑ > 100 ft

**Is there a change in the average width of the active channel?**
- ☑ Yes / Estimate Width: ft | 45 |
- ☑ No

**Is there evidence of sediment deposition in the channel?**
- ☑ Yes
- ☑ No

**Is the channel connected to a floodplain?**
- ☑ Yes
- ☑ No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

- No ARMORING VISIBLE
- DENSE BANK VEGETATION

Developed By: CT-NRCS  
January 2008
### CT - NRCS
Stream Assessment Worksheet

**Trash / Debris**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7-2-06</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: BH RC</td>
</tr>
<tr>
<td>Reach Code: 4LW-1</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

#### Make All Observations Facing Downstream

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- Through 4LW Reach

**Within Stream:** [✓] [✗] **Riparian Area:** [✗] Left Bank [✓] Right Bank

<table>
<thead>
<tr>
<th>Type:</th>
<th>Residential [✓]</th>
<th>Commercial [✗]</th>
<th>Industrial [✗]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>Plastic [✓]</td>
<td>Tires [✓]</td>
<td>Appliances [✓]</td>
</tr>
<tr>
<td></td>
<td>Paper [✓]</td>
<td>Metal [✓]</td>
<td>Automotive [✗]</td>
</tr>
<tr>
<td></td>
<td>Yard Waste [✗]</td>
<td>Construction [✗]</td>
<td>Medical [✗]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source:</th>
<th>Unknown [✗]</th>
<th>Flooding [✗]</th>
<th>Illegal Dumping [✓]</th>
<th>Local Outfall [✗]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Ownership:</td>
<td>Private [✗]</td>
<td>Public [✗]</td>
<td>Unknown [✓]</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
CT – NRCS
Stream Assessment Worksheet

Fish Barrier

Survey Basin Code: □□□□□□□□ Date: 7-28
Name of Stream: ALW-1 Assessed By: J H Re
Reach Code: □
Designated Stream Type:
Site ID: □

**Make All Observations Facing Downstream**

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

**Type of Barrier:** Mark the type of fish barrier.
- □ Dam
- □ Culvert
- □ Velocity Barrier
- □ Other

**Dam Data:** Provide all relevant data.
- Height of Dam: ft.
- Length of Spillway: ft.
- Shape of Spillway: □ Straight □ Crescent
- Materials: □ Stone □ Concrete □ Stone & Concrete □ Timber-Crib □ Other
- Is there other infrastructure associated with the Dam? □ No □ Yes (If yes mark the type below)
  - □ Factory
  - □ Hydro Facility
  - □ Mill
  - □ Residence
  - □ Other

**Culvert Data:** Provide all relevant data.
- Type of Culvert: □ Box □ Pipe □ Pipe-Arch □ Arch
- Culvert Material: □ Concrete □ Corrugated Metal □ Plastic □ Stone
- Culvert Outlet: □ Perched: ft. □ Ramped □ Submerged
- # of Culverts: 
- Culvert Length: ft.

**Velocity Barrier Data:** Provide all relevant data.
- Nature of Barrier: □ Grade Control Sill □ Concrete Apron □ Channel Cross-Section □ Other

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

```
UNKNOWN - CULVERT SUBMERGED

2 IN REACH
```
CT – NRCS
Stream Assessment Worksheet

Degrade Buffer

Survey Basin Code: | Date: 7-28
---|---
Name of Stream: | Assessed By: BH RE
Reach Code: |  
Designated Stream Type: |  
Site ID: |  

**Make All Observations Facing Downstream**

**Location/Extent of Degrade Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

- Meander Bend
- Straight Section
- Steep Slope/Valley Wall
- Other
- Left Bank
- Estimate length of degraded buffer: ft.
- Right Bank
- Estimate length of degraded buffer: 6 ft.

**Type of Degradation:**

- Left Bank: Minimal Vegetation
- Minimal Width
- Invasive Plants
- Other
- Right Bank: Minimal Vegetation
- Minimal Width
- Invasive Plants
- Other

**Dominate Land Cover**

<table>
<thead>
<tr>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf/Lawn</th>
<th>Tall Grass</th>
<th>Scrub/Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

- Left Bank:
  - Rural Residential
  - Urban Residential
  - Commercial
  - Forested
  - Suburban Residential
  - Industrial
  - Agricultural
  - Recreational
- Right Bank:
  - Rural Residential
  - Urban Residential
  - Commercial
  - Forested
  - Suburban Residential
  - Industrial
  - Agricultural
  - Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

- Left Bank:
  - < 15 ft.
  - 15 – 35 ft.
  - 35 – 50 ft.
  - 50 – 100 ft.
  - > 100 ft.
- Right Bank:
  - < 15 ft.
  - 15 – 35 ft.
  - 35 – 50 ft.
  - 50 – 100 ft.
  - > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

*Phragmites on both sides*
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream:  
Reach Code: ALW  
Designated Stream Type:  
Site ID:  

Date: 7-28-11
Assessed By:  

Make All Observations Facing Downstream

Location of Outfall: ☑ Right Bank  ☐ Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Outfall Type: ☑ Pipe  ☐ Leak Off  ☐ Channel  
Flow: ☑ None  ☐ Trickle  ☐ Moderate  ☐ Substantial  
Odor: ☑ None  ☐ Sewage  ☐ Rancid / Sour  ☐ Sulfur (rotten eggs)  
Deposits / Stains: ☑ None  ☐ Sediment Delta  ☐ Oily Stain  ☐ Black  
Benthic Growth: ☑ None  ☐ Brown  ☐ Green  ☐ Orange  

Pipe Data: Provide all relevant data.
Pipe Material: ☑ Concrete  ☐ Corrugated Metal  ☐ Plastic  ☐ Other  
Contributing Source(s): ☑ Road  ☐ Parking Lot  ☐ Other  ☐ Unknown  
Pipe Outlet: ☐ Perched . . . . . . . . . . . . ft.  ☐ Ramped  ☑ At Stream Level  
# of Pipes: ☑ 1  ☐ 2  ☐ 3 +  

Leak-Off Data: Provide all relevant data.
Leak-Off Swale: ☐ Concrete  ☐ Asphalt  ☐ Stone  ☐ Earthen  
Contributing Source (s): ☐ Road  ☐ Parking Lot  ☐ Recreational Field  ☐ Other  
Length of Swale: ft.  
Width of Swale: ft.  

Channel Data: Provide all relevant data.
Channel Material: ☑ Concrete  ☐ Asphalt  ☐ Stone  ☐ Earthen  
Contributing Source (s): ☐ Road  ☐ Parking Lot  ☐ Recreational Field  ☐ Other  ☐ Unknown  
Channel Length: ft.  
Channel Width: ft.  

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Developed By: CT-NRCS  
January 2008
CT-NRCS
Stream Assessment Sheet

Survey Basin Code: [Blank]  Date(s):  7/28  q:30 - 10
Name of Stream: [Blank]  Assessed By: RW RE
Reach Code: A1w2
Designated Stream Type: [Blank]

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed? ☑ Yes  ☐ No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

☐ Step-Pool  ☐ Pool-Riffle  ☐ Run  ☐ Glide  ☐ Manipulated Channel (piped, lined, etc.)

Active Channel Width: 10 ft  Glide Depth:
Ripple Depth: 5 ft
Pool Depth: 6”  Bank Height (Right Bank)
Run Depth: 6”  Bank Height (Left Bank):

Substrate Composition: Mark approximate percentages for each substrate type observed.

- Silt or Clay  ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Sand  ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Gravel (0.1-2 inches)  ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Cobble (2-10 inches)  ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Boulder (>10 inches)  ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Bedrock  ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%

Describe Water Conditions: Mark all that apply.

- ☑ Clear  ☑ Stained (“iced tea”)  ☐ Turbid (muddy/silty)
- ☑ Green  ☐ Rusty-Red  ☐ Milky
- ☐ Odors  ☐ Other (foam, dyes, chemicals)

Aquatic Plants in Stream:

- Floating: (e.g. duck weed)  ☑ Absent  ☐ In Spots  ☐ Everywhere
- Attached: (e.g. water lily)  ☑ Absent  ☐ In Spots  ☐ Everywhere

Algae in Stream:

- Floating: (e.g. planktonic)  ☑ Absent  ☐ In Spots  ☐ Everywhere
- Attached: (e.g. filamentous)  ☑ Absent  ☐ In Spots  ☐ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

☐ >75% covered  ☑ 75-50% covered  ☐ 50%-25% covered  ☐ < 25% covered

Area of Concern Worksheets
Indicate # and type of sheets completed for this reach assessment:
Erosion
Trash Barrier
Storm Water Outfall
Modified Channel
Impacted Buffer
Trash / Debris
Water Conditions

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Developed By CT-NRCS
January 2008
CT-NRCS
Stream Assessment Sheet
Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>X Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

Surrounding Land Use: Mark the dominant land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>¼ Mile from stream</th>
<th>&gt;¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Rural Residential</td>
<td>☐ Agricultural</td>
<td>☐ Rural Residential</td>
</tr>
<tr>
<td>☐ Suburban Residential</td>
<td>☐ Forested</td>
<td>☐ Suburban Residential</td>
</tr>
<tr>
<td>☐ Urban Residential</td>
<td>☐ Recreational</td>
<td>☐ Urban Residential</td>
</tr>
<tr>
<td>☐ Industrial</td>
<td>☐ Other</td>
<td>☐ Industrial</td>
</tr>
<tr>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
</tr>
</tbody>
</table>

Areas of Concern Checklist: Marking Yes to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach? ☐ Yes ☐ No
Are there any dams or any other possible natural or artificial barriers to fish migration? ☐ Yes ☐ No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 2
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? ☐ Yes ☐ No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? ☐ Yes ☐ No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? ☐ Yes ☐ No
Is there any portion of the reach that has a change in water conditions? ☐ Yes ☐ No

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Developed By CT-NRCS
January 2008
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream:  
Reach Code:  
Designated Stream Type:  
Site ID:  

Date:  
Assessed By:  

Make All Observations Facing downstream

Location / Extent of Trash or Debris: Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

Throughout  

[Diagram showing location]

Within Stream  
Riparian Area:  Left Bank  Right Bank

Type:  Residential  Commercial  Industrial
Material:  Plastic  Tires  Appliances  Other
Paper  Metal  Automotive
Yard Waste  Construction  Medical

Source:  Unknown  Flooding  Illegal Dumping  Local Outfall
Land Ownership:  Private  Public  Unknown

Notes: Use the space provided to record important observations otherwise not captured on this sheet.
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Date: 7-2-8
Name of Stream: Alw - 2  
Assessed By:  
Reach Code:  
Designated Stream Type:  
Site ID:  

Make All Observations Facing Downstream

Location / Extent of Degraded Buffer: 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Mark where the degraded buffer occurs.
- Meander Bend
- Straight Section
- Steep Slope/Valley Wall
- Other
- Left Bank
- Right Bank

Estimate length of degraded buffer: 0.52 ft.

Type of Degradation:
Left Bank:  
- Minimal Vegetation
- Minimal Width
- Invasive Plants
- Other
Right Bank:  
- Minimal Vegetation
- Minimal Width
- Invasive Plants
- Other

Dominant Land Cover
<table>
<thead>
<tr>
<th></th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

Left Bank:  
- Rural Residential
- Suburban Residential
- Urban Residential
- Commercial
- Industrial
- Agricultural
- Forested
- Recreational
Right Bank:  
- Rural Residential
- Suburban Residential
- Urban Residential
- Commercial
- Industrial
- Agricultural
- Forested
- Recreational

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.

Left Bank:  
- < 15 ft.
- 15 - 35 ft.
- 35 - 50 ft.
- 50 - 100 ft
- > 100 ft
Right Bank:  
- < 15 ft.
- 15 - 35 ft.
- 35 - 50 ft.
- 50 - 100 ft
- > 100 ft

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Developed By: CT-NRCS
January 2008
CT - NRCS
Stream Assessment Worksheet

**Storm Water Outfall**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7/28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: RK 08</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:** ✓ Right Bank  ☑ Left Bank  Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

**Outfall Type:** ☑ Pipe  ☑ Leak Off  ☐ Channel

**Flow:** ☑ None  ☑ Trickle  ☑ Moderate  ☐ Substantial

**Odor:** ☑ None  ☑ Sewage  ☑ Rancid / Sour  ☑ Sulfur (rotten eggs)

**Deposits / Stains:** ☑ None  ☑ Sediment Delta  ☑ Oily Stain  ☐ Black

**Benthic Growth:** ☑ None  ☑ Brown  ☑ Green  ☑ Orange

**Pipe Data:** Provide all relevant data.

**Pipe Material:** ☑ Concrete  ☐ Corrugated Metal  ☐ Plastic  ☑ Other

**Contributing Source(s):** ☑ Road  ☑ Parking Lot  ☑ Other  ☐ Unknown

**Pipe Outlet:** ☑ Perched …………… ft  ☑ Ramped  ☑ At Stream Level

**Pipe Size:** Diameter: ø 5 ft.

**# of Pipes:** ☑ 1  ☑ 2  ☑ 3 +

**Leak-Off Data:** Provide all relevant data.

**Leak-Off Swale:** ☑ Concrete  ☑ Asphalt  ☑ Stone  ☑ Earthen

**Contributing Source (s):** ☑ Road  ☑ Parking Lot  ☑ Recreational Field  ☑ Other

**Length of Swale:** ft.

**Width of Swale:** ft.

**Channel Data:** Provide all relevant data.

**Channel Material:** ☑ Concrete  ☑ Asphalt  ☑ Stone  ☑ Earthen

**Contributing Source (s):** ☑ Road  ☑ Parking Lot  ☑ Recreational Field  ☑ Other  ☑ Unknown

**Channel Length:** ft.

**Channel Width:** ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
## CT-NRCS
### Stream Assessment Sheet

**Survey Basin Code:**

**Name of Stream:** Unnamed Trub

**Reach Code:** ALL3

**Designated Stream Type:**

---

**Make All Observations Facing Downstream**

- **Was the entire reach of stream surveyed?** □ Yes □ No, Which section(s) were not surveyed? Why?

---

### Channel Morphology:

- Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Active Channel Width</th>
<th>Glide Depth</th>
<th>Riffle Depth</th>
<th>Pool Depth</th>
<th>Run Depth</th>
<th>Bank Height (Right Bank)</th>
<th>Bank Height (Left Bank)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step-Pool</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pool-Riffle</td>
<td>□ Yes</td>
<td>□ No</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glide</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manifaculated</td>
<td>[ ] Manipulated Channel (piped, lined, etc.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Substrate Composition:

- Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Substrate Type</th>
<th>&lt;5%</th>
<th>5-25%</th>
<th>25-50%</th>
<th>50-75%</th>
<th>&gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td></td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Sand</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Bedrock</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

### Describe Water Conditions:

- Mark all that apply.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Clear</th>
<th>Stained (&quot;iced tea&quot;)</th>
<th>Turbid (muddy / silty)</th>
<th>Turbid (muddy / silty)</th>
<th>Turbid (muddy / silty)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td></td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
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<td></td>
<td>□</td>
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<td></td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td></td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

### Aquatic Plants in Stream:

- Floating: (e.g. duck weed) □ Absent □ In Spots □ Everywhere

<table>
<thead>
<tr>
<th>Floating: (e.g. duck weed)</th>
<th>Absent</th>
<th>In Spots</th>
<th>Everywhere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absent □ In Spots  □</td>
<td>Everywhere</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Attached: (e.g. water lily) □ Absent □ In Spots □ Everywhere

<table>
<thead>
<tr>
<th>Attached: (e.g. water lily)</th>
<th>Absent</th>
<th>In Spots</th>
<th>Everywhere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absent □ In Spots  □</td>
<td>Everywhere</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Algae in Stream:

- Floating: (e.g. planktonic) □ Absent □ In Spots □ Everywhere

<table>
<thead>
<tr>
<th>Floating: (e.g. planktonic)</th>
<th>Absent</th>
<th>In Spots</th>
<th>Everywhere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absent □ In Spots  □</td>
<td>Everywhere</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Attached: (e.g. filamentous) □ Absent □ In Spots □ Everywhere

<table>
<thead>
<tr>
<th>Attached: (e.g. filamentous)</th>
<th>Absent</th>
<th>In Spots</th>
<th>Everywhere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absent □ In Spots  □</td>
<td>Everywhere</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Canopy Cover:

- Mark approximate percentage of stream covered by tree canopy.

<table>
<thead>
<tr>
<th>Coverage Percentage</th>
<th>&gt;75% covered</th>
<th>75-50% covered</th>
<th>50-25% covered</th>
<th>&lt; 25% covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

---

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

---

**Area of Concern Worksheets**

- Erosion
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash / Debris
- Water Conditions

**Developed By:** CT-NRCS

**January 2008**
**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th>Riparian Vegetation</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>☐ ❌ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Grass</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>□ Rural Residential</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>Agricultural</td>
<td>□ Agricultural</td>
<td>□ Agricultural</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>□ Forested</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>Recreational</td>
<td>□ Urban Residential</td>
<td>□ Recreational</td>
</tr>
<tr>
<td>Commercial</td>
<td>□ Other</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streamed instability within the reach? [□ Yes [x] No]
- Are there any dams or any other possible natural or artificial barriers to fish migration? [□ Yes [x] No]
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: □ Yes [x] No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? [□ Yes [x] No]
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? [□ Yes [x] No]
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? [□ Yes [x] No]
- Is there any portion of the reach that has a change in water conditions? [□ Yes [x] No]

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

---

Developed By: CT-NRCS  
January 2008
CT – NRCS  
Stream Assessment Worksheet

Modified Channel

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7/28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>AW-3</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

Mark where channel modification occurs:
- [ ] Meander Bend  [x] Straight Section  [ ] Steep Slope/Valley Wall  [ ] Other

Estimate length of channel modification: 100 ft.

Estimate height of bank modification: 2 ft.

**Type of Manipulation:**
- [ ] Channelization  [x] Bank Armoring  [ ] Concrete Channel  [ ] Other

**Extent of Manipulation:**
- [ ] Right Bank  [x] Left Bank  [ ] Channel Bottom  [ ] Other

**Channel / Bank Materials:**
- [ ] Natural  [ ] Rip Rap  [x] Concrete  [ ] Gabions  [ ] Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- [ ] Rural Residential  [ ] Urban Residential  [x] Commercial  [ ] Forested
- [ ] Suburban Residential  [x] Industrial  [ ] Agricultural  [ ] Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.
- [x] < 15 ft.  [ ] 15 – 35 ft.  [ ] 35 – 50 ft.  [ ] 50 – 100 ft  [ ] > 100 ft

Is there a change in the average width of the active channel?  [ ] Yes / Estimate Width: [ ] ft  [x] No

Is there evidence of sediment deposition in the channel?  [ ] Yes  [x] No

Is the channel connected to a floodplain?  [ ] Yes  [x] No

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
## CT – NRCS
### Stream Assessment Worksheet

**Degraded Buffer**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>7-2-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>RE R H</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Make All Observations Facing **Downstream**

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

- Degraded buffer in modified section at stream crossings and much Phragmites throughout

**Mark where the degraded buffer occurs.**

- Meander Bend
- Straight Section
- Steep Slope/Valley Wall
- Other

- Left Bank
  - Estimate length of degraded buffer: 100 ft.

- Right Bank
  - Estimate length of degraded buffer: ft.

**Type of Degradation:**

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Minimal Vegetation</th>
<th>Minimal Width</th>
<th>Invasive Plants</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right Bank:</td>
<td>Minimal Vegetation</td>
<td>Minimal Width</td>
<td>Invasive Plants</td>
<td>Other</td>
</tr>
</tbody>
</table>

**Dominate Land Cover**

<table>
<thead>
<tr>
<th>Land Cover</th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td>∝</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td>∝</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Rural Residential</th>
<th>Urban Residential</th>
<th>Commercial</th>
<th>Forested</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Suburban Residential</td>
<td>Industrial</td>
<td>Agricultural</td>
<td>Recreational</td>
</tr>
<tr>
<td>Right Bank:</td>
<td>Rural Residential</td>
<td>Urban Residential</td>
<td>Commercial</td>
<td>Forested</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>Industrial</td>
<td>Agricultural</td>
<td>Recreational</td>
<td></td>
</tr>
</tbody>
</table>

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

| Left Bank: | < 15 ft. | 15 – 35 ft. | 35 – 50 ft. | 50 – 100 ft | > 100 ft |
| Right Bank: | < 15 ft. | 15 – 35 ft. | 35 – 50 ft. | 50 – 100 ft | > 100 ft |

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Developed By: CT-NRCS
January 2008
CT - NRCS
Stream Assessment Worksheet

Trash / Debris

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>7-28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>RE + B1</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

Throughout Reach

- **Within Stream**
- **Riparian Area:**
  - [ ] Left Bank
  - [ ] Right Bank

**Type:**
- [x] Residential
- [ ] Commercial
- [ ] Industrial

**Material:**
- [x] Plastic
- [ ] Tires
- [ ] Appliances
- [ ] Other
- [ ] Paper
- [ ] Metal
- [ ] Automotive
- [ ] Medical
- [ ] Yard Waste
- [ ] Construction

**Source:**
- [ ] Unknown
- [ ] Flooding
- [ ] Illegal Dumping
- [ ] Local Outfall
- [ ] Industrial

**Land Ownership:**
- [ ] Private
- [ ] Public
- [ ] Unknown

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Developed By: CT NRCS
January 2008
CT - NRCS
Stream Assessment Worksheet

Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7-28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: BH B.C</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

Location of Outfall: □ Right Bank □ Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

- Leak off, ASPHALT PAVED, FROM ROAD

### Outfall Type
- □ Pipe
- □ Leak Off
- □ Channel

### Flow
- □ None
- □ Trickle
- □ Moderate
- □ Substantial

### Odor
- □ None
- □ Sewage
- □ Rancid / Sour
- □ Sulfur (rotten eggs)

### Deposits / Stains
- □ None
- □ Sediment Delta
- □ Oily Stain
- □ Black

### Benthic Growth
- □ None
- □ Brown
- □ Green
- □ Orange

### Pipe Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>□ Concrete</th>
<th>□ Corrugated Metal</th>
<th>□ Plastic</th>
<th>□ Other</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Contributing Source(s):</th>
<th>□ Road</th>
<th>□ Parking Lot</th>
<th>□ Other</th>
<th>□ Unknown</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pipe Outlet:</th>
<th>□ Perched ......</th>
<th>ft.</th>
<th>□ Ramped</th>
<th>□ At Stream Level</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pipe Size: Diameter:</th>
<th>ft.</th>
<th># of Pipes:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>□ 1</td>
</tr>
</tbody>
</table>

### Leak-Off Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Contributing Source(s):</th>
<th>□ Road</th>
<th>□ Parking Lot</th>
<th>□ Other</th>
<th>□ Unknown</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Length of Swale:</th>
<th>6 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width of Swale:</td>
<td>2 ft.</td>
</tr>
</tbody>
</table>

### Channel Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Contributing Source(s):</th>
<th>□ Road</th>
<th>□ Parking Lot</th>
<th>□ Other</th>
<th>□ Unknown</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Channel Length:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
</tr>
</tbody>
</table>

### Notes: Use the space provided to record important observations otherwise not captures on this sheet.
Completed Stream Assessment Forms
Beaver Brook
**CT-NRCS**

**Stream Assessment Sheet**

**Reach Level Assessment**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s): 8-4-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: B.H. FO DEP</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>830-1130</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

Was the entire reach of stream surveyed?  [ ] Yes  [ ] No. Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s) and indicate the average measurements.

- [ ] Step-Pool  [ ] Pool-Riffle  [ ] Run  [ ] Glide  [ ] Manipulated Channel (piped, lined, etc.)

<table>
<thead>
<tr>
<th>Active Channel Width:</th>
<th>Glide Depth:</th>
</tr>
</thead>
<tbody>
<tr>
<td>12'-15'</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Riffle Depth:</th>
<th>Step Height:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6''</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pool Depth:</th>
<th>Bank Height (Right Bank):</th>
</tr>
</thead>
<tbody>
<tr>
<td>12'-10'</td>
<td>G''</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Run Depth:</th>
<th>Bank Height (Left Bank):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G''</td>
</tr>
</tbody>
</table>

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

- [ ] Silt or Clay
- [ ] Sand
- [ ] Gravel (0.1-2 inches)
- [ ] Cobble (2-10 inches)
- [ ] Boulder (>10 inches)
- [ ] Bedrock

**Describe Water Conditions:** Mark all that apply.

- [ ] Clear
- [ ] Stained ("iced tea")
- [ ] Turbid (turbid/silty)
- [ ] Green
- [ ] Rusty-Red
- [ ] Milky
- [ ] Odors
- [ ] Other (foam, dyes, chemicals)

**Aquatic Plants in Stream:**

- Floating: (e.g. duck weed) [ ] Absent [ ] In Spots [ ] Everywhere
- Attached: (e.g. water lily) [ ] Absent [x] In Spots [ ] Everywhere

**Algae in Stream:**

- Floating: (e.g. planktonic) [x] Absent [ ] In Spots [ ] Everywhere
- Attached: (e.g. filamentous) [ ] Absent [x] In Spots [ ] Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

- [x] >75% covered
- [ ] 75-50% covered
- [ ] 50-25% covered
- [ ] <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

Surrounding Land Use: Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th></th>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>[ ] Agricultural</td>
<td>[ ] Residential</td>
<td>[ ] Agricultural</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>[ ] Forested</td>
<td>[ ] Residential</td>
<td>[ ] Forested</td>
</tr>
<tr>
<td>(Urban) Residential</td>
<td>[ ] Recreational</td>
<td>[ ] Residential</td>
<td>[ ] Recreational</td>
</tr>
<tr>
<td>Industrial</td>
<td>[ ] Other</td>
<td>[ ] Industrial</td>
<td>[ ] Other</td>
</tr>
<tr>
<td>Commercial</td>
<td>[ ] Commercial</td>
<td>[ ] Commercial</td>
<td>[ ] Commercial</td>
</tr>
</tbody>
</table>

Areas of Concern Checklist: Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? [ ] Yes [ ] No
- Are there any dams or any other possible natural or artificial barriers to fish migration? [ ] Yes [ ] No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:
  - Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? [ ] Yes [ ] No
  - Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? [ ] Yes [ ] No
  - Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? [ ] Yes [ ] No
  - Is there any portion of the reach that has a change in water conditions? [ ] Yes [ ] No

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
CT – NRCS
Stream Assessment Worksheet

Fish Barrier

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8-4-(5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Bβ-1</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

Location of Barrier: Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

[Diagram showing location of barrier with labels: start and finish]

**Type of Barrier:** Mark the type of fish barrier.

- [x] Dam
- [ ] Culvert
- [ ] Velocity Barrier
- [ ] Other

**Dam Data:** Provide all relevant data.

- Height of Dam: 4 ft.
- Length of Spillway: 10 ft.
- Shape of Spillway: Straight
- Materials: [ ] Stone
- Concrete
- [ ] Stone & Concrete
- [ ] Timber-Crib
- [ ] Other
- Is there other infrastructure associated with the Dam? [ ] No
- [ ] Yes (If yes mark the type below)
- [ ] Factory
- [ ] Hydro Facility
- [ ] Mill
- [ ] Residence
- [ ] Other

**Culvert Data:** Provide all relevant data.

- Type of Culvert: [ ] Box
- [ ] Pipe
- [ ] Pipe-Arch
- [ ] Arch
- Culvert Material: [ ] Concrete
- [ ] Corrugated Metal
- [ ] Plastic
- [ ] Stone
- Culvert Outlet: [ ] Perched: 3 ft.
- [ ] Ramped
- [ ] Submerged
- Culvert Size: Diameter: 1 ft.
- Height: 2 ft.
- Width: 1 ft.
- # of Culverts: 3
- Culvert Length: 1 ft.

**Velocity Barrier Data:** Provide all relevant data.

- Nature of Barrier: [ ] Grade Control Sill
- [ ] Concrete Apron
- [ ] Channel Cross-Section
- [ ] Other
- Length of Barrier: 2 ft.
- Approx. Vertical Rise: 1 ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Developed By: CT-NRCS
January 2008
CT – NRCS  
Stream Assessment Worksheet  

Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8-4-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: CT+</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:**  
- [ ] Right Bank  
- [ ] Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

- [ ] Total, see map

### Outfall Type:
- [x] Pipe  
- [ ] Leak Off  
- [ ] Channel

### Flow:
- [ ] None  
- [ ] Trickle  
- [ ] Moderate  
- [ ] Substantial

### Odor:
- [ ] None  
- [ ] Sewage  
- [ ] Rancid / Sour  
- [ ] Sulfur (rotten eggs)

### Deposits / Stains:
- [ ] None  
- [ ] Sediment Delta  
- [ ] Oily Stain  
- [ ] Black

### Benthic Growth:
- [ ] None  
- [ ] Brown  
- [ ] Green  
- [ ] Orange

**Pipe Data:** Provide all relevant data.

### Pipe Material:
- [x] Concrete  
- [ ] Corrugated Metal  
- [ ] Plastic  
- [ ] Other

### Contributing Source(s):
- [x] Road  
- [ ] Parking Lot  
- [x] Other  
- [ ] Unknown

### Pipe Outlet:
- [x] Perched...  
- [ ] 2 ft  
- [ ] Ramped  
- [x] At Stream Level

### Pipe Size:
- Diameter  
- 2 ft.

### # of Pipes:
- [ ] 1  
- [ ] 2  
- [x] 3+

**Leak-Off Data:** Provide all relevant data.

### Leak-Off Swale:
- [ ] Concrete  
- [ ] Asphalt  
- [ ] Stone  
- [ ] Earthen

### Contributing Source(s):
- [ ] Road  
- [ ] Parking Lot  
- [ ] Recreational Field  
- [ ] Other

### Length of Swale:
- ft.

### Width of Swale:
- ft.

**Channel Data:** Provide all relevant data.

### Channel Material:
- [ ] Concrete  
- [ ] Asphalt  
- [ ] Stone  
- [ ] Earthen

### Contributing Source(s):
- [ ] Road  
- [ ] Parking Lot  
- [ ] Recreational Field  
- [ ] Other  
- [ ] Unknown

### Channel Length:
- ft.

### Channel Width:
- ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

---

Developed By: CT-NRCS  
January 2008
CT - NRCS  
Stream Assessment Worksheet  
Modified Channel

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8-4-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: BH + 4</td>
</tr>
<tr>
<td>Reach Code: 66-1</td>
<td>Site ID:</td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

![Diagram](image)

Mark where channel modification occurs:
- Meander Bend
- Straight Section
- Steep Slope/Valley Wall
- Other

**Estimate length of channel modification:** ft. (b) 65 ft. BEACH

**Estimate height of bank modification:** ft.

**Type of Manipulation:**
- Channelization
- Bank Armoring
- Concrete Channel
- Other

**Extent of Manipulation:**
- Right Bank
- Left Bank
- Channel Bottom

**Channel / Bank Materials:**
- Natural
- Rip Rap
- Concrete
- Gabions
- Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- Rural Residential
- Urban Residential
- Commercial
- Forested
- Suburban Residential
- Industrial
- Agricultural
- Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.
- < 15 ft.
- 15 - 35 ft.
- 35 - 50 ft.
- 50 - 100 ft.
- > 100 ft.

Is there a change in the average width of the active channel?  
- Yes / Estimate Width: ft  
- No

Is there evidence of sediment deposition in the channel?  
- Yes
- No

Is the channel connected to a floodplain?  
- Yes
- No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
CT - NRCS
Stream Assessment Worksheet

Survey Basin Code: 
Date: 8-4-15
Name of Stream: 
Assessed By: 
Reach Code: R6-1
Designated Stream Type: 
Site ID: 

Make All Observations Facing Downstream

Location / Extent of Degraded Buffer: 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Mark where the degraded buffer occurs.
☐ Meander Bend ☒ Straight Section ☐ Steep Slope/Valley Wall ☐ Other
☒ Left Bank Estimate length of degraded buffer: 200 ft.
☐ Right Bank Estimate length of degraded buffer: ft.

Type of Degradation:
Left Bank: ☒ Minimal Vegetation ☒ Minimal Width ☒ Invasive Plants ☐ Other
Right Bank: ☒ Minimal Vegetation ☒ Minimal Width ☒ Invasive Plants ☐ Other

Dominate Land Cover
<table>
<thead>
<tr>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Right Bank</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

Left Bank:
☐ Rural Residential ☒ Urban Residential ☐ Commercial ☒ Forested
☐ Suburban Residential ☐ Industrial ☐ Agricultural ☒ Recreational

Right Bank:
☐ Rural Residential ☒ Urban Residential ☐ Commercial ☒ Forested
☐ Suburban Residential ☐ Industrial ☐ Agricultural ☒ Recreational

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.

Left Bank: ☒ < 15 ft. ☐ 15 - 35 ft. ☐ 35 - 50 ft. ☐ 50 - 100 ft. ☐ > 100 ft
Right Bank: ☐ < 15 ft. ☐ 15 - 35 ft. ☐ 35 - 50 ft. ☐ 50 - 100 ft. ☐ > 100 ft

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Japanese Knotweed / Mexican bamboo
Wysteria
Lilac / Native Veg
(Native grape / Fox grape / buttonbush)

Developed By CT-NRCS
January 2008
Completed Stream Assessment Forms
Belden Brook
CT-NRCS
Stream Assessment Sheet
Reach Level Assessment

Survey Basin Code:  
Name of Stream: BELDIN BRDON  
Reach Code: BLD-1  
Designated Stream Type:

Date(s): 7-7-15  
Assessed By: BH AR RE  
10:00 - 11:00

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed? ☑ Yes  ☐ No, Which section(s) were not surveyed? Why?

<table>
<thead>
<tr>
<th>Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Step-Pool  ☑ Pool-Ripple  ☒ Run  ☒ Glide  *☐ Manipulated Channel (piped, lined, etc.)</td>
</tr>
<tr>
<td>Active Channel Width: 12'</td>
</tr>
<tr>
<td>riffle Depth: 3/&quot;</td>
</tr>
<tr>
<td>Pool Depth: 1/2</td>
</tr>
<tr>
<td>Run Depth:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substrate Composition: Mark approximate percentages for each substrate type observed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay☐ &lt;5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ &gt;75%</td>
</tr>
<tr>
<td>☒ Sand☐ &lt;5%  ☐ 5-25%  ☐ 25-50%  ☒ 50-75%  ☒ &gt;75%</td>
</tr>
<tr>
<td>☒ Gravel (0.1-2 inches)☐ &lt;5%  ☒ 5-25%  ☒ 25-50%  ☒ 50-75%  ☒ &gt;75%</td>
</tr>
<tr>
<td>☒ Gravel (2-10 inches)☐ &lt;5%  ☒ 5-25%  ☒ 25-50%  ☒ 50-75%  ☒ &gt;75%</td>
</tr>
<tr>
<td>☒ Boulder (&gt;10 inches)☐ &lt;5%  ☒ 5-25%  ☒ 25-50%  ☒ 50-75%  ☒ &gt;75%</td>
</tr>
<tr>
<td>☒ Bedrock☐ &lt;5%  ☒ 5-25%  ☒ 25-50%  ☒ 50-75%  ☒ &gt;75%</td>
</tr>
</tbody>
</table>

| Describe Water Conditions: Mark all that apply. |
| ☑ Clear  ☐ Stained ("iced tea")  ☑ Turbid (muddy/silty) |
| ☑ Green  ☑ Rusty-Red  ☑ Milky |
| ☑ Odors  ☑ Other (foam, dyes, chemicals) |

<table>
<thead>
<tr>
<th>Aquatic Plants in Stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. duck weed) ☐ Absent  ☐ In Spots  ☐ Everywhere</td>
</tr>
<tr>
<td>Attached: (e.g. water lily) ☒ Absent  ☒ In Spots  ☒ Everywhere</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Algae in Stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. planktonic) ☒ Absent  ☐ In Spots  ☒ Everywhere</td>
</tr>
<tr>
<td>Attached: (e.g. filamentous) ☒ Absent  ☐ In Spots  ☒ Everywhere</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canopy Cover: Mark approximate percentage of stream covered by tree canopy.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ &gt;75% covered  ☑ 75-50% covered  ☑ 50%-25% covered  ☐ &lt;25% covered</td>
</tr>
</tbody>
</table>

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
### CT-NRCS
#### Stream Assessment Sheet

**Reach Level Assessment**

<table>
<thead>
<tr>
<th>Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Rural Residential</td>
<td>□ Agricultural</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>□ Suburban Residential</td>
<td>□ Forested</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>□ Urban Residential</td>
<td>□ Recreational</td>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>□ Industrial</td>
<td>□ Other</td>
<td>□ Industrial</td>
</tr>
<tr>
<td>□ Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: __________
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, riprap)? □ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? □ Yes □ No
- Is there any portion of the reach that has a change in water conditions? □ Yes □ No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

- Dam was Natural - Downed Tree, Brush, Trash, leaves - see Trash/Debris Sheet.
CT – NRCS
Stream Assessment Worksheet

Trash / Debris

Survey Basin Code: 
Name of Stream: Belle Brook
Reach Code: B28-1
Designated Stream Type: 
Site ID: 
Date: 7-9-15
Assessed By: BH AB RE

Make All Observations Facing **Downstream**

Location / Extent of Trash or Debris: Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- [ ] Floor Debris
- [ ] Lumber
- [ ] Logs
- [ ] Branches
- [ ] Leaves
- [ ] Other

- [x] Within Stream
- [ ] Riparian Area: 
  - [ ] Left Bank
  - [ ] Right Bank

<table>
<thead>
<tr>
<th>Type</th>
<th>Residential</th>
<th>Commercial</th>
<th>Industrial</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>[x] Plastic</td>
<td>[ ] Tires</td>
<td>[ ] Appliances</td>
<td>[ ] Logs</td>
</tr>
<tr>
<td></td>
<td>[ ] Paper</td>
<td>[ ] Metal</td>
<td>[ ] Automotive</td>
<td></td>
</tr>
<tr>
<td></td>
<td>[ ] Yard Waste</td>
<td>[ ] Construction</td>
<td>[ ] Medical</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source</th>
<th>Unknown</th>
<th>Flooding</th>
<th>Illegal Dumping</th>
<th>Local Outfall</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Land Ownership</th>
<th>Private</th>
<th>Public</th>
<th>Unknown</th>
</tr>
</thead>
</table>

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Log Jam from Flooding
Branch wider - 12'
1/2-2' Bank

Developed By: CT-NRCS
January 2008
New Groucher: River Left
New Outfall 500' from Creek

Natural Flood Debris Causing Fish Barrier
Trash, Drowned Trees, Logs, Leaves
River Forks - Both Sides Blocked

River L: 2' Corr. Metal
Discharge Pipe, Conc. Rubble

River R: 1' Corr. Metal Over Pipe

Bridge Culvert: Under Woodin Rd.
3 Disch. Pipes

2' Conc
1' Conc
1' metal in Bridge Abutment
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code: [Blank]  Date: 7-9-15
Name of Stream: Belle Brook  Assessed By: [Blank]
Reach Code: 6CB-1
Designated Stream Type: [Blank]
Site ID: [Blank]

Make All Observations Facing Downstream

Location of Bank Erosion: 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Mark where erosion is occurring:

☐ Meander Bend  ☐ Straight Section  ☑ Steep Slope/Valley Wall  ☐ Other

Site Dimensions: Indicate all applicable measurements associated with the erosion site

Length: Left Bank: 75 ft.  Right Bank: X ft.
Bank Height: Left Bank: 3 ft.  Right Bank: 2 ft.
Bank Angle: Left Bank: 60 deg.  Right Bank: 12 deg.

What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?

☐ < 15 ft.  ☑ 15 - 30 ft.  ☐ 30 - 45 ft.  ☐ 45 - 60 ft.  ☐ 60 - 100 ft.  ☐ > 100 ft.

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the erosion site.

☐ Rural Residential  ☐ Urban Residential  ☑ Commercial  ☐ Forested
☐ Suburban Residential  ☐ Industrial  ☐ Agricultural  ☐ Recreational

Land Ownership: Mark land ownership at the location of the erosion site.

☐ Public  ☐ Private  ☑ Unknown

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation at the erosion site.

☐ < 15 ft.  ☑ 15 - 35 ft.  ☐ 35 - 50 ft.  ☐ 50 - 100 ft.  ☐ > 100 ft.

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Steep slope, Bldg/Fence near top of slope, erosion due to slope more than brock, no shrubs/grasses on slope, exposed root structure.
CT - NRCS  
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream:  
Reach Code:  
Designated Stream Type:  
Site ID:  

Date: 7-7-15  
Assessed By: DH AB RC

Make All Observations Facing Downstream

Location of Outfall:  
- Right Bank  
- Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Outfall Type:  
- Pipe  
- Leak Off  
- Channel

Flow:  
- None  
- Trickle  
- Moderate  
- Substantial

Odor:  
- None  
- Sewage  
- Rancid / Sour  
- Sulfur (rotten eggs)

Deposits / Stains:  
- None  
- Sediment Delta  
- Oily Stain  
- Black

Benthic Growth:  
- None  
- Brown  
- Green  
- Orange

Pipe Data: Provide all relevant data.

Pipe Material:  
- Concrete  
- Corrugated Metal  
- Plastic  
- Other

Contributing Source(s):  
- Road  
- Parking Lot  
- Other  
- Unknown

Pipe Outlet:  
- Perched...... 5 ft.  
- Ramped  
- At Stream Level

Pipe Size:  
- Diameter: 2 ft.

# of Pipes:  
- 1  
- 2  
- 3 +

Leak-Off Data: Provide all relevant data.

Leak-Off Swale:  
- Concrete  
- Asphalt  
- Stone  
- Earthen

Contributing Source (s):  
- Road  
- Parking Lot  
- Recreational Field  
- Other

Length of Swale: ft.

Width of Swale: ft.

Channel Data: Provide all relevant data.

Channel Material:  
- Concrete  
- Asphalt  
- Stone  
- Earthen

Contributing Source (s):  
- Road  
- Parking Lot  
- Recreational Field  
- Other  
- Unknown

Channel Length: ft.

Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

was @ 75' from stream - Brand New Construction

Developed By: CT-NRCS  
January 2008
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:  
Name of Stream: Beeden Creek  
Assessed By: BH AB RE  
Reach Code:  
Designated Stream Type:  
Site ID:  

Make All Observations Facing Downstream

Location of Outfall:  
Right Bank  
Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Outfall Type:  
Pipe  
Leak Off  
Channel

Flow:  
None  
Trickle  
Moderate  
Substantial

Odor:  
None  
Sewage  
Rancid / Sour  
Sulfur (rotten eggs)

Deposits / Stains:  
None  
Sediment Delta  
Oily Stain  
Black

Benthic Growth:  
None  
Brown  
Green  
Orange

Pipe Data: Provide all relevant data.

Pipe Material:  
Concrete  
Corrugated Metal  
Plastic  
Other

Contributing Source(s):  
Road  
Parking Lot  
Other  
Unknown

Pipe Outlet:  
Perched…….ft.  
Ramped  
At Stream Level

Pipe Size:  
Diameter: ft.

# of Pipes:  
1  
2  
3+

Leak-Off Data: Provide all relevant data.

Leak-Off Swale:  
Concrete  
Asphalt  
Stone  
Earthen

Contributing Source(s):  
Road  
Parking Lot  
Recreational Field  
Other

Length of Swale: ft.

Width of Swale: ft.

Channel Data: Provide all relevant data.

Channel Material:  
Concrete  
Asphalt  
Stone  
Earthen

Contributing Source(s):  
Road  
Parking Lot  
Recreational Field  
Other  
Unknown

Channel Length: ft.

Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

\[ R = \text{Small Corr. Meta from Cemetery } \text{of } \text{L D.} \]
\[ RN = \text{Meta } \text{2' D. from } \text{10' off stream from Sleep Bank.} \]

Broken并不能-beneath.
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code: 
Name of Stream: BLACK BRIDG
Reach Code: 6131
Designated Stream Type: 
Site ID:  

Date: 7-7-15
Assessed By: BH AB KE

Make All Observations Facing Downstream

Location of Outfall: ☑ Right Bank ☐ Left Bank
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

AT WOODIN ST. BRIDGE

Outfall Type: ☑ Pipe ☐ Leak Off ☐ Channel
Flow: ☑ None ☐ Trickle ☐ Moderate ☐ Substantial
Odor: ☑ None ☐ Sewage ☐ Rancid / Sour ☐ Sulfur (rotten eggs)
Deposits / Stains: ☑ None ☐ Sediment Delta ☐ Oily Stain ☐ Black
Benthic Growth: ☐ None ☐ Brown ☐ Green ☐ Orange

Pipe Data: Provide all relevant data.
Pipe Material: ☑ Concrete ☐ Corrugated Metal ☐ Plastic ☐ Other
Contributing Source(s): ☑ Road ☐ Parking Lot ☐ Other ☐ Unknown
Pipe Outlet: ☑ Perched 2 ft. ☐ Ramp ed ☑ At Stream Level
Pipe Size: Diameter: 2 - 2 ft.
# of Pipes: ☑ 1 ☐ 2 ☑ 3 + 3

Leak-Off Data: Provide all relevant data.
Leak-Off Swale: ☑ Concrete ☐ Asphalt ☐ Stone ☐ Earthen
Contributing Source(s): ☑ Road ☐ Parking Lot ☐ Other
Length of Swale: ft.
Width of Swale: ft.

Channel Data: Provide all relevant data.
Channel Material: ☑ Concrete ☐ Asphalt ☐ Stone ☐ Earthen
Contributing Source(s): ☑ Road ☐ Parking Lot ☐ Other ☐ Unknown
Channel Length: ft.
Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

2' CONC. 1' CONC. 1' METAL IN ADHESIVE

ALL DISCH. DIRECT TO BROOK

Developed By: CT-NRCS
January 2008
**CT-NRCS**  
Stream Assessment Sheet

### Reach Level Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s): 7-9-15</th>
</tr>
</thead>
</table>
| Name of Stream:    | Assessed By: CH  
| Reach Code:        | CD  
| Designated Stream Type: | END |

- **Make All Observations Facing Downstream**

- **Was the entire reach of stream surveyed?** Yes  
- **No, Which section(s) were not surveyed? Why?**

### Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Active Channel Width:</th>
<th>Glide Depth:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step-Pool</td>
<td>12'</td>
<td></td>
</tr>
<tr>
<td>Pool-Riffle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run</td>
<td>3''</td>
<td></td>
</tr>
<tr>
<td>Glide</td>
<td>1'</td>
<td></td>
</tr>
<tr>
<td>Manipulated Channel (piped, lined, etc.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Riffle Depth:** 3''
- **Pool Depth:** 12''
- **Run Depth:** 1'
- **Bank Height (Right Bank):** 1'
- **Bank Height (Left Bank):** 1'

### Substrate Composition: Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Substrate</th>
<th>&lt;5%</th>
<th>5-25%</th>
<th>25-50%</th>
<th>50-75%</th>
<th>&gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cobbles (2-10 inches)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bedrock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Describe Water Conditions: Mark all that apply.

- **Clear**
- **Stained ("iced tea")**
- **Turbid (muddy/silty)**
- **Green**
- **Rusty-Red**
- **Milky**
- **Odors**
- **Other (foam, dyes, chemicals)**

### Aquatic Plants in Stream:

- **Floating:** (e.g. duck weed)  
  - Absent
  - In Spots
  - Everywhere
- **Attached:** (e.g. water lily)  
  - Absent
  - In Spots
  - Everywhere

### Algae in Stream:

- **Floating:** (e.g. planktonic)  
  - Absent
  - In Spots
  - Everywhere
- **Attached:** (e.g. filamentous)  
  - Absent
  - In Spots
  - Everywhere

### Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

- >75% covered
- 75-50% covered
- 50-25% covered
- <25% covered

---

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td></td>
<td>![Low]</td>
<td>![Moderate]</td>
<td>![Moderate]</td>
<td>![High]</td>
<td>![High]</td>
</tr>
<tr>
<td>Grass</td>
<td>![Low]</td>
<td>![Low]</td>
<td>![Moderate]</td>
<td>![Moderate]</td>
<td>![High]</td>
<td>![High]</td>
</tr>
<tr>
<td>Shrubs</td>
<td>![Low]</td>
<td>![Low]</td>
<td>![Moderate]</td>
<td>![Moderate]</td>
<td>![High]</td>
<td>![High]</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>![Low]</td>
<td>![Low]</td>
<td>![Moderate]</td>
<td>![Moderate]</td>
<td>![High]</td>
<td>![High]</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>![Low]</td>
<td>![Low]</td>
<td>![Moderate]</td>
<td>![Moderate]</td>
<td>![High]</td>
<td>![High]</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominant land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>![Rural Residential]</td>
<td>![Rural Residential]</td>
</tr>
<tr>
<td>Agricultural</td>
<td>![Agricultural]</td>
<td>![Agricultural]</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>![Suburban Residential]</td>
<td>![Suburban Residential]</td>
</tr>
<tr>
<td>Forested</td>
<td>![Forest]</td>
<td>![Forest]</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>![Urban Residential]</td>
<td>![Urban Residential]</td>
</tr>
<tr>
<td>Recreational</td>
<td>![Recreational]</td>
<td>![Recreational]</td>
</tr>
<tr>
<td>Industrial</td>
<td>![Industrial]</td>
<td>![Industrial]</td>
</tr>
<tr>
<td>Commercial</td>
<td>![Commercial]</td>
<td>![Commercial]</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach?  ![Yes]  ![No]
- Are there any dams or any other possible natural or artificial barriers to fish migration?  ![Yes]  ![No]
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:__________.
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?  ![Yes]  ![No]
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?  ![Yes]  ![No]
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?  ![Yes]  ![No]
- Is there any portion of the reach that has a change in water conditions?  ![Yes]  ![No]

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

- SCATTERED TRASH THROUGHOUT
- FIRST 3/4 ALL MODIFIED CHANNEL - RIP RAP

Developed By: CT-NRCS
January 2008
CT – NRCS
Stream Assessment Worksheet

Fish Barrier

Survey Basin Code: | Date: 7-9-15
---|---
Name of Stream: | Assessed By: BH AB RC
Reach Code: | B-L-B-2
Designated Stream Type: | Site ID:

Make All Observations Facing Downstream

Location of Barrier: Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

AT STANLEY RP

Type of Barrier: Mark the type of fish barrier.

- [ ] Dam
- [X] Culvert
- [ ] Velocity Barrier
- [ ] Other

Dam Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Height of Dam:</th>
<th>ft.</th>
<th>Length of Spillway:</th>
<th>ft.</th>
<th>Shape of Spillway:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- [ ] Stone</td>
<td></td>
<td>- [ ] Concrete</td>
<td></td>
<td>- [ ] Stone &amp; Concrete</td>
</tr>
<tr>
<td>- [ ] Other</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Is there other infrastructure associated with the Dam? [ ] No [ ] Yes (If yes mark the type below)

- [ ] Factory
- [ ] Hydro Facility
- [ ] Mill
- [ ] Residence
- [ ] Other

Culvert Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Type of Culvert:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>- [ ] Box</td>
<td></td>
</tr>
<tr>
<td>- [X] Pipe</td>
<td></td>
</tr>
<tr>
<td>- [ ] Pipe-Arch</td>
<td></td>
</tr>
<tr>
<td>- [ ] Arch</td>
<td></td>
</tr>
<tr>
<td>- [ ] Concrete</td>
<td></td>
</tr>
<tr>
<td>- [ ] Corrugated Metal</td>
<td></td>
</tr>
<tr>
<td>- [ ] Plastic</td>
<td></td>
</tr>
<tr>
<td>- [ ] Stone</td>
<td></td>
</tr>
</tbody>
</table>

Culvert Outlet: [ ] Perched:... 3 ft.


# of Culverts: 2

Culvert Length: ft.

Velocity Barrier Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Nature of Barrier:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- [ ] Grade Control Sill</td>
</tr>
<tr>
<td>- [ ] Concrete Apron</td>
</tr>
<tr>
<td>- [ ] Channel Cross-Section</td>
</tr>
<tr>
<td>- [ ] Other</td>
</tr>
</tbody>
</table>


Notes: Use the space provided to record important observations otherwise not captured on this sheet.
# CT - NRCS
## Stream Assessment Worksheet

**Fish Barrier**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7-9-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream: Belden Br.</td>
<td>Assessed By: CH AB RE</td>
</tr>
<tr>
<td>Reach Code: BLB-Z</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td>Make All Observations Facing Downstream</td>
</tr>
</tbody>
</table>

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

UNDER MERCITT PKWY

**Type of Barrier:** Mark the type of fish barrier.

- [x] Dam
- [ ] Culvert
- [ ] Velocity Barrier
- [ ] Other

**Dam Data:** Provide all relevant data.

- Height of Dam: 4 ft.
- Length of Spillway: ft.
- Shape of Spillway: [x] Straight, [ ] Crescent
- Materials: [ ] Stone, [ ] Concrete, [x] Stone & Concrete
- Is there other infrastructure associated with the Dam? [ ] No, [ ] Yes (If yes mark the type below)
  - Factory
  - Hydro Facility
  - Mill
  - [x] Residence
  - [ ] Other

**Culvert Data:** Provide all relevant data.

- Type of Culvert: [x] Box, [ ] Pipe, [ ] Pipe-Arch, [ ] Arch
- Culvert Material: [x] Concrete, [ ] Corrugated Metal, [ ] Plastic, [ ] Stone
- Culvert Outlet: [x] Perched: ... ft.
- # of Culverts: 2
- Culvert Length: 225 ft.

**Velocity Barrier Data:** Provide all relevant data.

- Length of Barrier: ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Very similar to 1954 Norton Culvert
CT – NRCS  
Stream Assessment Worksheet  

Storm Water Outfall  

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>7-9-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>BH AB RE</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td>BLB2</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td>Make All Observations Facing Downstream</td>
<td></td>
</tr>
</tbody>
</table>

**Location of Outfall:**  
☐ Right Bank    ☒ Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>☑ Pipe</th>
<th>☐ Leak Off</th>
<th>☐ Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>☑ None</td>
<td>☐ Trickle</td>
<td>☐ Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>☑ None</td>
<td>☐ Sewage</td>
<td>☐ Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>☑ None</td>
<td>☐ Sediment Delta</td>
<td>☐ Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>☑ None</td>
<td>☐ Brown</td>
<td>☐ Green</td>
</tr>
</tbody>
</table>

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>☑ Corrugated Metal</th>
<th>☐ Concrete</th>
<th>☐ Plastic</th>
<th>☐ Other m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☐ Road ?</td>
<td>☐ Parking Lot</td>
<td>☐ Other</td>
<td>☑ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>☑ Perched............. ft.</td>
<td>☐ Ramped</td>
<td>☑ At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 1.5 ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>☑ 1</td>
<td>☑ 2</td>
<td>☐ 3 +</td>
<td></td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>☑ Concrete</th>
<th>☐ Asphalt</th>
<th>☐ Stone</th>
<th>☐ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☑ Road</td>
<td>☐ Parking Lot</td>
<td>☐ Other</td>
<td>☐ Unknown</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>☑ Concrete</th>
<th>☐ Asphalt</th>
<th>☐ Stone</th>
<th>☐ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☑ Road</td>
<td>☐ Parking Lot</td>
<td>☐ Other</td>
<td>☐ Unknown</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Metal pipe in Cove Block.  
From Residential area, likely street runoff.
**Survey Basin Code:**

**Date:** 7-9-15

**Name of Stream:** Beulden Brook

**Assessed By:** AB RE

**Reach Code:** B&B 2

**Designated Stream Type:**

**Site ID:**

---

**Make All Observations Facing Downstream**

**Location of Outfall:**
- [x] Right Bank
- [ ] Left Bank

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

---

**Outfall Type:**
- [x] Pipe
- [ ] Leak Off
- [ ] Channel

**Flow:**
- [ ] None
- [x] Trickle
- [x] Moderate
- [ ] Substantial

**Odor:**
- [x] None
- [ ] Sewage
- [ ] Rancid / Sour
- [ ] Sulfur (rotten eggs)

**Deposits / Stains**
- [x] None
- [ ] Sediment Delta
- [ ] Oily Stain
- [ ] Black

**Benthic Growth**
- [x] None
- [ ] Brown
- [ ] Green
- [ ] Orange

---

**Pipe Data: Provide all relevant data.**

**Pipe Material:**
- [x] Concrete
- [ ] Corrugated Metal
- [ ] Plastic
- [ ] Other

**Contributing Source(s):**
- [ ] Road
- [ ] Parking Lot
- [ ] Other
- [ ] Unknown

**Pipe Outlet:**
- [x] Perched
- [x] 8 ft.
- [ ] Ramped
- [ ] At Stream Level

**Pipe Size:**
- Diameter: 2 ft.

**# of Pipes:**
- [x] 1
- [ ] 2
- [ ] 3 +

---

**Leak-Off Data: Provide all relevant data.**

**Leak-Off Swale:**
- [x] Concrete
- [ ] Asphalt
- [x] Stone
- [ ] Earthen

**Contributing Source(s):**
- [ ] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [ ] Other

**Length of Swale:** 25 ft.

**Width of Swale:** 6 ft.

---

**Channel Data: Provide all relevant data.**

**Channel Material:**
- [ ] Concrete
- [ ] Asphalt
- [x] Stone
- [ ] Earthen

**Contributing Source(s):**
- [ ] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [ ] Other
- [ ] Unknown

**Channel Length:** ft.

**Channel Width:** ft.

---

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

---

**Developed By:** CT-NRCS

**January 2008**
**CT - NRCS**  
**Stream Assessment Worksheet**  
Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7-9-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream: Belden Creek</td>
<td>Assessed By: BH AB PE</td>
</tr>
<tr>
<td>Reach Code: BLD Z</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:**  
☐ Right Bank  ☐ Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

![River R](image)

**Outfall Type:**  
☐ Pipe  ☐ Leak Off  ☐ Channel

**Flow:**  
☐ None  ☐ Trickle  ☐ Moderate  ☐ Substantial

**Odor:**  
☐ None  ☐ Sewage  ☐ Rancid / Sour  ☐ Sulfur (rotten eggs)

**Deposits / Stains:**  
☐ None  ☐ Sediment Delta  ☐ Oily Stain  ☐ Black

**Benthic Growth:**  
☐ None  ☐ Brown  ☐ Green  ☐ Orange

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>☐ Concrete  ☐ Corrugated Metal  ☐ Plastic  ☐ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☐ Road  ☐ Parking Lot  ☐ Other  ☐ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>☐ Perched...... 5 ft.  ☐ Ramped  ☐ At Stream Level</td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 1.5 ft.</td>
</tr>
<tr>
<td># of Pipes:</td>
<td>☐ 1  ☐ 2  ☐ 3 +</td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>☐ Concrete  ☐ Asphalt  ☐ Stone  ☐ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☐ Road  ☐ Parking Lot  ☐ Recreational Field  ☐ Other</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>12 ft.</td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>5 ft.</td>
</tr>
</tbody>
</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>☐ Concrete  ☐ Asphalt  ☐ Stone  ☐ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☐ Road  ☐ Parking Lot  ☐ Recreational Field  ☐ Other  ☐ Unknown</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Stonework swale, ramped.
Survey Basin Code:  | Date: 7-9-15  
Name of Stream:  | Assessed By:  
Reach Code:  |  
Designated Stream Type: |  
Site ID: |  

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

![Downstream 3/4](image)

**Mark where channel modification occurs:**
- [ ] Meander Bend
- [x] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Estimate length of channel modification:** 2/3 MILES

**Estimate height of bank modification:** 6 ft.

**Type of Manipulation:**
- [ ] Channelization
- [x] Bank Armoring
- [ ] Concrete Channel
- [ ] Other

**Extent of Manipulation:**
- [x] Right Bank
- [ ] Left Bank
- [ ] Channel Bottom

**Channel / Bank Materials:**
- [ ] Natural
- [x] Rip Rap
- [ ] Concrete
- [ ] Gabions
- [ ] Metal

**Immediately Adjacent Land Use:**
- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [x] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.
- [x] < 15 ft.
- [ ] 15 – 35 ft.
- [ ] 35 – 50 ft.
- [ ] 50 – 100 ft
- [ ] > 100 ft

Is there a change in the average width of the active channel?  
- [ ] Yes / Estimate Width: 3 ft  
- [x] No

Is there evidence of sediment deposition in the channel?  
- [ ] Yes  
- [x] No

Is the channel connected to a floodplain?  
- [x] Yes  
- [ ] No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

![Diagram of lawn, fence, riprap, broom](image)
| Survey Basin Code: | Date: 7-9-15 |
| Name of Stream: Belden | Assessed By: RH AB RE |
| Reach Code: BLB-2 |
| Designated Stream Type: |
| Site ID: |

**Make All Observations Facing Downstream**

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

- [ ] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other
- [ ] Left Bank
- [ ] Right Bank

**Estimate length of degraded buffer:** ft.

**Type of Degradation:**

| Left Bank: | Right Bank: |
| Minimal Vegetation | Minimal Vegetation |
| Minimal Width | Minimal Width |
| Invasive Plants | Invasive Plants |
| Other | Other |

**Dominant Land Cover**

<table>
<thead>
<tr>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

| Left Bank: | Right Bank: |
| Rural Residential | Rural Residential |
| Urban Residential | Urban Residential |
| Commercial | Commercial |
| Forested | Forested |
| Forested | Forested |

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

| Left Bank: | Right Bank: |
| < 15 ft. | < 15 ft. |
| 15 - 35 ft. | 15 - 35 ft. |
| 35 - 50 ft. | 35 - 50 ft. |
| 50 - 100 ft | 50 - 100 ft |
| > 100 ft | > 100 ft |

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

```
MODIFIED CHANNEL -

LAWN, FENCE, STEEP BANK/RIPE MP, BROOM
```
CT - NRCS
Stream Assessment Worksheet

Fish Barrier

Survey Basin Code:  
Name of Stream: Belden  
Reach Code: 6-8-3  
Designated Stream Type:  
Site ID:  

Date: 7-14-15  
Assessed By: RH, KE

Make All Observations Facing **Downstream**

Location of Barrier: Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

```
AT 2 1/2 way THROUGH REACH
```

**Type of Barrier:** Mark the type of fish barrier.
- [ ] Dam  
- [ ] Culvert  
- [ ] Velocity Barrier  
- [ ] Other

**Dam Data:** Provide all relevant data.
- Height of Dam: 8 ft.  
- Length of Spillway: 8 ft.  
- Shape of Spillway: Straight  
- Materials: Stone  
- Other

**Culvert Data:** Provide all relevant data.
- Type of Culvert:  
- Culvert Material:  
- Culvert Outlet: Perched:...... ft.  
- Culvert Size: Diameter: ft.  
- # of Culverts: Culvert Length: ft.  
- Other

**Velocity Barrier Data:** Provide all relevant data.
- Nature of Barrier:  
- Length of Barrier: ft.  
- Other

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

```
MAN MADE, LOWEST STONE ONLY
```
Belden
BLB - 3

7-14-15
BH + ASHA

2" OUTFLOW

1 at Main St. Bridge Riv R - Road Runoff 12" Conc.
0.50 m South Riv R 8" PVC Launch
B.H. Pneaked @ 6"
CT - NRCS  
Stream Assessment Worksheet  
Storm Water Outfall

Survey Basin Code:  
Name of Stream:  
Reach Code:  
Designated Stream Type:  
Site ID:  
Date:  7-14-15  
Assessed By:  Brian + Asha

Make All Observations Facing Downstream

Location of Outfall:  
- Right Bank  
- Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

1. Outfall at Dam - 12" concrete pipe - L = Dry  
2. At Bridge near Gorham Dr. R = Trickle  
L = Dry

Outfall Type:  
- Pipe  
- Leak Off  
- Channel

Flow:  
- None  
- Trickle  
- Moderate  
- Substantial

Odor:  
- None  
- Sewage  
- Rancid / Sour  
- Sulfur (rotten eggs)

Deposits / Stains:  
- None  
- Sediment Delta  
- Oily Stain  
- Black

Benthic Growth:  
- None  
- Brown  
- Green  
- Orange

Pipe Data: Provide all relevant data.

Pipe Material:  
- Concrete  
- Corrugated Metal  
- Plastic  
- Other

Contributing Source(s):  
- Road  
- Parking Lot  
- Other  
- Unknown

Pipe Outlet:  
- Perched...... 1 ft.  
- Ramped  
- At Stream Level

Pipe Size:  
- Diameter:  1 ft.  
- 2 ft.  
- 3 + ft.

# of Pipes:  
- 1  
- 2  
- 3 +

Leak-Off Data: Provide all relevant data.

Leak-Off Swale:  
- Concrete  
- Asphalt  
- Stone  
- Earthen

Contributing Source(s):  
- Road  
- Parking Lot  
- Recreational Field  
- Other

Length of Swale:  
- ft.

Width of Swale:  
- ft.

Channel Data: Provide all relevant data.

Channel Material:  
- Concrete  
- Asphalt  
- Stone  
- Earthen

Contributing Source(s):  
- Road  
- Parking Lot  
- Recreational Field  
- Other  
- Unknown

Channel Length:  
- ft.

Channel Width:  
- ft.

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Sec MP
## CT-NRCS
### Stream Assessment Sheet
#### Reach Level Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s):</th>
<th>7-14</th>
</tr>
</thead>
</table>
| Name of Stream:     | Assessed By: | AFAA  
| Reach Code:         |          | 310 - 130 (incl. papers at end) |
| Designated Stream Type: | | |

**Make All Observations Facing Downstream.**

Was the entire reach of stream surveyed?  
- [x] Yes  
- [ ] No, Which section(s) were not surveyed? Why?

### Channel Morphology:
- Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Active Channel Width:</th>
<th>Glide Depth:</th>
<th>Step Height:</th>
<th>Bank Height (Right Bank):</th>
<th>Bank Height (Left Bank):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step-Pool</td>
<td>10&quot;</td>
<td></td>
<td>6&quot;</td>
<td>12&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Pool-Riffle</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glide</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manipulated Channel (piped, lined, etc.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Substrate Composition:
- Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Substrate Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Sand</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Bedrock</td>
<td>&lt;5%</td>
</tr>
</tbody>
</table>

### Describe Water Conditions:
- Mark all that apply.

- Clear  
- Stained (“iced tea”)  
- Turbid (muddy/silty)  
- Green  
- Rusty-Red  
- Milky  
- Odors  
- Other (foam, dyes, chemicals)

### Aquatic Plants in Stream:
- Floating (e.g. duck weed):  
  - Absent  
  - In Spots  
  - Everywhere
- Attached (e.g. water lily):  
  - Absent  
  - In Spots  
  - Everywhere

### Algae in Stream:
- Floating (e.g. planktonic):  
  - Absent  
  - In Spots  
  - Everywhere
- Attached (e.g. filamentous):  
  - Absent  
  - In Spots  
  - Everywhere

### Canopy Cover:
- Mark approximate percentage of stream covered by tree canopy.

- [x] >75% covered  
- [ ] 75-50% covered  
- [ ] 50-25% covered  
- [ ] < 25% covered

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
## CT-NRCS
### Stream Assessment Sheet

#### Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th>Riparian Vegetation</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>☑ Low</td>
<td>☑ Low</td>
<td>☑ Low</td>
<td>☑ Moderate</td>
<td>☑ High</td>
<td>☑ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>☑ Low</td>
<td>☑ Low</td>
<td>☑ Low</td>
<td>☑ Moderate</td>
<td>☑ High</td>
<td>☑ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>☑ Low</td>
<td>☑ Low</td>
<td>☑ Low</td>
<td>☑ Moderate</td>
<td>☑ High</td>
<td>☑ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>☑ Low</td>
<td>☑ Low</td>
<td>☑ Low</td>
<td>☑ Moderate</td>
<td>☑ High</td>
<td>☑ High</td>
</tr>
</tbody>
</table>

#### Surrounding Land Use: Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Rural Residential</td>
<td>☐ Agricultural</td>
<td>☐ Rural Residential</td>
</tr>
<tr>
<td>☐ Suburban Residential</td>
<td>☐ Agricultural</td>
<td>☐ Suburban Residential</td>
</tr>
<tr>
<td>☑ Forested</td>
<td>☑ Forested</td>
<td>☑ Forested</td>
</tr>
<tr>
<td>☐ Urban Residential</td>
<td>☐ Recreational</td>
<td>☐ Urban Residential</td>
</tr>
<tr>
<td>☐ Industrial</td>
<td>☐ Other</td>
<td>☐ Industrial</td>
</tr>
<tr>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
</tr>
</tbody>
</table>

#### Areas of Concern Checklist:

- Is there evidence of either stream bank erosion or streambed instability within the reach? ☐ Yes ☐ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? ☐ Yes ☐ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 3
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? ☐ Yes ☐ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? ☐ Yes ☐ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? ☐ Yes ☐ No
- Is there any portion of the reach that has a change in water conditions? ☐ Yes ☐ No

### Notes:
Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

*Natural Erosion but not near infrastructure. Minimal trash, one car.*

Developed By CT-NRCS
January 2008
CT - NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream:  
Reach Code:  
Designated Stream Type:  
Site ID:  
Assessed By:  

Date:  

Make All Observations Facing **Downstream**

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

**Type of Barrier:** Mark the type of fish barrier.
- [ ] Dam
- [ ] Culvert
- [ ] Velocity Barrier
- [ ] Other

**Dam Data:** Provide all relevant data.

- **Height of Dam:** 4 ft.
- **Length of Spillway:** 6 ft.
- **Shape of Spillway:** [ ] Straight
- **Materials:** [ ] Stone
- **Concrete**
- [ ] Stone & Concrete
- [ ] Timber-Crib
- [ ] Other
- **Is there other infrastructure associated with the Dam?** [ ] No
- [ ] Yes (If yes mark the type below)
- [ ] Factory
- [ ] Hydro Facility
- [ ] Mill
- [ ] Residence
- [ ] Other

**Culvert Data:** Provide all relevant data.

- **Type of Culvert:** [ ] Box
- [ ] Pipe
- [ ] Pipe-Arch
- [ ] Arch
- **Culvert Material:** [ ] Concrete
- [ ] Corrugated Metal
- [ ] Plastic
- [ ] Stone
- **Culvert Outlet:** [ ] Perched: .......
- [ ] Ramped
- [ ] Submerged
- **Culvert Size:** Diameter: __. ft.
- **Height:** __. ft.
- **Width:** __. ft.
- **# of Culverts:** __
- **Culvert Length:** __. ft.

**Velocity Barrier Data:** Provide all relevant data.

- **Nature of Barrier:** [ ] Grade Control Sill
- [ ] Concrete Apron
- [ ] Channel Cross-Section
- [ ] Other
- **Length of Barrier:** __. ft.
- **Approx. Vertical Rise:** __. ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Two steps - 6", 3.5" poured Conc. Structure
CT-NRCS
Stream Assessment Sheet

Survey Basin Code:  
Name of Stream:  BELEN  
Reach Code:  BEB - 4  
Designated Stream Type:  

Date(s):  
Assessed By:  PSIA  BRIAN  

Make All Observations Facing *Downstream*

Was the entire reach of stream surveyed?  ☑ Yes  ☐ No, Which section(s) were not surveyed? Why?

<table>
<thead>
<tr>
<th>Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Step-Pool  ☑ Pool-Riffle  ☐ Run  ☐ Glide  ☐ Manipulated Channel (piped, lined, etc.)</td>
</tr>
<tr>
<td>Active Channel Width:  5' (1.5')</td>
</tr>
<tr>
<td>Riffle Depth:</td>
</tr>
<tr>
<td>Pool Depth:</td>
</tr>
<tr>
<td>Run Depth:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substrate Composition: Mark approximate percentages for each substrate type observed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Silt or Clay  ☑ Sand  ☑ Gravel (0.1-2 inches)  ☑ Cobble (2-10 inches)  ☑ Boulder (&gt;10 inches)  ☑ Bedrock</td>
</tr>
<tr>
<td>☑ &lt;5%  ☑ 5-25%  ☑ 25-50%  ☑ 50-75%  ☑ &gt;75%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Describe Water Conditions: Mark all that apply.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Clear  ☑ Stained (&quot;iced tea&quot;)  ☑ Turbid (muddy / silty)</td>
</tr>
<tr>
<td>☑ Green  ☑ Rusty-Red  ☑ Milky</td>
</tr>
<tr>
<td>☑ Odors  ☑ Other (foam, dyes, chemicals)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aquatic Plants in Stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. duck weed)  ☑ Absent  ☑ In Spots  ☑ Everywhere</td>
</tr>
<tr>
<td>Attached: (e.g. water lily)  ☑ Absent  ☐ In Spots  ☑ Everywhere</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Algae in Stream:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. planktonic)  ☑ Absent  ☑ In Spots  ☑ Everywhere</td>
</tr>
<tr>
<td>Attached: (e.g. filamentous)  ☑ Absent  ☐ In Spots  ☑ Everywhere</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canopy Cover: Mark approximate percentage of stream covered by tree canopy.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ &gt;75% covered  ☑ 75-50% covered  ☑ 50%-25% covered  ☑ &lt;25% covered</td>
</tr>
</tbody>
</table>

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
**CT-NRCS**  
**Stream Assessment Sheet**

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Turf Grass</strong></td>
<td>☒ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td><strong>Grass</strong></td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td><strong>Shrubs</strong></td>
<td>☒ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td><strong>Deciduous Trees</strong></td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td><strong>Coniferous Trees</strong></td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominant land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Rural Residential</td>
<td>☐ Agricultural</td>
<td>☐ Rural Residential</td>
</tr>
<tr>
<td>☐ Suburban Residential</td>
<td>☐ Forested</td>
<td>☐ Suburban Residential</td>
</tr>
<tr>
<td>☐ Urban Residential</td>
<td>☐ Recreational</td>
<td>☐ Urban Residential</td>
</tr>
<tr>
<td>☐ Industrial</td>
<td>☐ Other</td>
<td>☐ Industrial</td>
</tr>
<tr>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking **Yes** to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach?  
  - Yes  
  - No

- Are there any dams or any other possible natural or artificial barriers to fish migration?  
  - Yes  
  - No

- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 2

- Is there any portion of the channel that has been modified (not culvert) (chaneled, piped, rip rap)?  
  - Yes  
  - No

- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?  
  - Yes  
  - No

- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?  
  - Yes  
  - No

- Is there any portion of the reach that has a change in water conditions?  
  - Yes  
  - No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
CT-NRCS  
Stream Assessment Sheet  
Reach Level Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s): 1/7/14-1/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Belden</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>RLB-5</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

- Was the entire reach of stream surveyed? □ Yes □ No. Which section(s) were not surveyed? Why?
- Stream width < 12", depth < 2-3", hard to track. Very marshy, thick understory - no need to revisit.

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

- Step-Pool □, Pool-Ripple □, Run □, Glide □, Manipulated Channel (piped, lined, etc.) *
- Active Channel Width: 12"     Glide Depth:
- Ripple Depth: 2" - 3"         Step Height:
- Pool Depth: 2" - 3"           Bank Height (Right Bank): ≤ 3"
- Run Depth: 2" - 3"            Bank Height (Left Bank): ≤ 3"

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

- Silt or Clay □ <5% □ 5-25% □ 25-50% □ 50-75% □ >75%
- Sand □ <5% □ 5-25% □ 25-50% □ 50-75% □ >75%
- Gravel (0.1-2 inches) □ <5% □ 5-25% □ 25-50% □ 50-75% □ >75%
- Cobble (2-10 inches) □ <5% □ 5-25% □ 25-50% □ 50-75% □ >75%
- Boulder (>10 inches) □ <5% □ 5-25% □ 25-50% □ 50-75% □ >75%
- Bedrock □ <5% □ 5-25% □ 25-50% □ 50-75% □ >75%

**Describe Water Conditions:** Mark all that apply.

- Clear □, Stained ("iced tea") □, Turbid (muddy/silty) *
- Green □, Rusty-Red □, Milky *
- Odors □, Other (foam, dyes, chemicals) *

**Aquatic Plants in Stream:**

- Floating: (e.g. duck weed) □ Absent □ In Spots □ Everywhere
- Attached: (e.g. water lily) □ Absent □ In Spots □ Everywhere

**Algae in Stream:**

- Floating: (e.g. planktonic) □ Absent □ In Spots □ Everywhere
- Attached: (e.g. filamentous) □ Absent □ In Spots □ Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

- >75% covered □ 75-50% covered □ 50%-25% covered □ <25% covered

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
### CT-NRCS
#### Stream Assessment Sheet

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th>Riparian Vegetation</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
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</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each “zone”, if known or observed.

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<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
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</tr>
<tr>
<td>☐ Industrial</td>
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</table>

**Areas of Concern Checklist:** Marking **Yes** to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? **Yes** □ No □
- Are there any dams or any other possible natural or artificial barriers to fish migration? **Yes** □ No □
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: **Yes** □ No □
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? **Yes** □ No □
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? **Yes** □ No □
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? **Yes** □ No □
- Is there any portion of the reach that has a change in water conditions? **Yes** □ No □

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

---

*Developed By: CT-NRCS  
January 2008*
Completed Stream Assessment Forms
Farm Brook
CT-NRCS
Stream Assessment Sheet
Reach Level Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s): 8/13/15 10-11-70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: RE/25/10</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>Designated Stream Type:</td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

Was the entire reach of stream surveyed? Yes □ No □. Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

- Step-Pool □ Pool-Riffle □ Run □ Glide □ Manipulated Channel (piped, lined, etc.)
- Active Channel Width: 6’
- Glide Depth: 6”
- riffle Depth: Step Height:
- Pool Depth: Bank Height (Right Bank):
- Run Depth: Bank Height (Left Bank):

Substrate Composition: Mark approximate percentages for each substrate type observed.

- Silt or Clay □ <5% □ 5-25% □ 25-50% □ 50-75% □ >75%
- Sand □ <5% □ 5-25% □ 25-50% □ 50-75% □ >75%
- Gravel (0.1-2 inches) □ <5% □ 5-25% □ 25-50% □ 50-75% □ >75%
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Describe Water Conditions: Mark all that apply.

- Clear □ Stained (“iced tea”) □ Turbid (muddy / silty)
- Green □ Rusty-Red □ Milky
- Odors □ Other (foam, dyes, chemicals)

Aquatic Plants in Stream:

- Floating: (e.g. duck weed) □ Absent □ In Spots □ Everywhere
- Attached: (e.g. water lily) □ Absent □ In Spots □ Everywhere

Algae in Stream:

- Floating: (e.g. planktonic) □ Absent □ In Spots □ Everywhere
- Attached: (e.g. filamentous) □ Absent □ In Spots □ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

- >75% covered □ 75-50% covered □ 50%-25% covered □ <25% covered

Area of Concern Worksheets
Indicate size and type of sheet completed for this reach assessment:
- Brown
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash / Debris
- Water Conditions

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Developed By CT-NRCS
January 2008
## CT-NRCS
### Stream Assessment Sheet
#### Reach Level Assessment

<table>
<thead>
<tr>
<th>Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
</tr>
<tr>
<td>Turf Grass</td>
</tr>
<tr>
<td>Grass</td>
</tr>
<tr>
<td>Shrubs</td>
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### Surrounding Land Use: Mark the dominate land use(s) for each “zone”, if known or observed.

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<tbody>
<tr>
<td>Rural Residential</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Agricultural</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Forested</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>☐</td>
<td>☐</td>
</tr>
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<td>☐</td>
<td>☐</td>
</tr>
<tr>
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<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Other</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Commercial</td>
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</tr>
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### Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? ☐ Yes ☐ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? ☐ Yes ☐ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: ☐ 
- Is there any portion of the channel that has been modified (not culvert) (channelled, piped, rip rap)? ☐ Yes ☐ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? ☐ Yes ☐ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? ☐ Yes ☐ No
- Is there any portion of the reach that has a change in water conditions? ☐ Yes ☐ No

### Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheet.

---

Developed By: CT-NRCS  
January 2008
# CT - NRCS

## Stream Assessment Worksheet

**Trash / Debris**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

### Make All Observations Facing Downstream

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

<table>
<thead>
<tr>
<th>Within Stream</th>
<th>Riparian Area:</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
</table>

### Type:

- Residential
- Commercial
- Industrial

### Material:

- Plastic
- Paper
- Yard Waste
- Tires
- Metal
- Construction

### Source:

- Unknown
- Flooding
- Illegal Dumping

### Land Ownership:

- Private
- Public
- Unknown

### Notes:

Use the space provided to record important observations otherwise not captured on this sheet.

---

*Developed By CT-NRCS*

*January 2008*
# CT - NRCS

## Stream Assessment Worksheet

### Erosion Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td></td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Bank Erosion:**
1. Mark and label the location of the erosion on the map.
2. Briefly describe the location of the site relative to roads or other landmarks.

**Mark where erosion is occurring:**
- Meander Bend
- Straight Section
- Steep Slope/Valley Wall
- Other

**Site Dimensions:**
Indicate all applicable measurements associated with the erosion site.

<table>
<thead>
<tr>
<th>Length:</th>
<th>Left Bank:</th>
<th>ft.</th>
<th>Right Bank:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank Height:</td>
<td>Left Bank:</td>
<td>ft.</td>
<td>Right Bank:</td>
<td>ft.</td>
</tr>
</tbody>
</table>

**What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?**
- < 15 ft.
- 15 - 30 ft.
- 30 - 45 ft.
- 45 - 60 ft.
- 60 - 100 ft.
- > 100 ft.

**Immediately Adjacent Land Use:**
- Rural Residential
- Urban Residential
- Commercial
- Forested
- Suburban Residential
- Industrial
- Agricultural
- Recreational

**Land Ownership:**
- Public
- Private
- Unknown

**Existing Width of Riparian Vegetation:**
Mark the average width of riparian vegetation at the erosion site.
- < 15 ft.
- 15 - 35 ft.
- 35 - 50 ft.
- 50 - 100 ft.
- > 100 ft.

**Notes:**
Use the space provided to record important observations otherwise not captured on this sheet.

---

Developed By CT-NRCS
January 2008
CT - NRCS
Stream Assessment Worksheet

Visual Water Conditions / Excessive Plant or Algae Growth

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth: 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

- Rural Residential
- Urban Residential
- Commercial
- Forested
- Suburban Residential
- Industrial
- Agricultural
- Recreational

Describe Water Conditions: Mark all that apply.

- Clear
- Stained ("iced tea")
- Turbid (muddy / silty)
- Odors
- Green
- Rusty-Red
- Milky
- Other (foam, dyes, chemicals)

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

- >75% covered
- 75-50% covered
- 50%-25% covered
- <25% covered

Aquatic Plants in Stream:

- Floating: (e.g. duck weed)
  - Absent
  - In Spots
  - Everywhere

- Attached: (e.g. water lily)
  - Absent
  - In Spots
  - Everywhere

Algae in Stream:

- Floating: (e.g. planktonic)
  - Absent
  - In Spots
  - Everywhere

- Attached: (e.g. filamentous)
  - Absent
  - In Spots
  - Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?  □ Yes □ No

Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?  □ Yes □ No

Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?  □ Yes □ No

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Developed By: CT-NRCS
January 2008
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code: ___________________________  Date: 8/17/15  10-11-36
Name of Stream: Farm Brook  Assessed By: PE 2B 4CD
Reach Code: F01
Designated Stream Type: ___________________________
Site ID: ___________________________

Make All Observations Facing Downstream

Location of Outfall: □ Right Bank  □ Left Bank  Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Outfalls are marked on map as STD – there are at least 23 throughout the reach. Mostly street or lawn drainage

Outfall Type: □ Pipe  □ Leak Off  □ Channel
Flow: □ None  □ Trickle  □ Moderate  □ Substantial
Odor: □ None  □ Sewage  □ Rancid / Sour  □ Sulfur (rotten eggs)
Deposits / Stains □ None  □ Sediment Delta  □ Oily Stain □ Black
Benthic Growth □ None  □ Brown  □ Green  □ Orange

Pipe Data: Provide all relevant data.

Pipe Material: □ Concrete  □ Corrugated Metal  □ Plastic  □ Other
Contributing Source(s): □ Road  □ Parking Lot  □ Other  □ Unknown
Pipe Outlet: □ Perched……. ft.  □ Ramped  □ At Stream Level
Pipe Size: Diameter: 1” – 3 ft.
# of Pipes: □ 1  □ 2  □ 3+ (23)

Leak-Off Data: Provide all relevant data.

Leak-Off Swale: □ Concrete  □ Asphalt  □ Stone  □ Earthen
Contributing Source(s): □ Road  □ Parking Lot  □ Recreational Field  □ Other
Length of Swale: ft.
Width of Swale: ft.

Channel Data: Provide all relevant data.

Channel Material: □ Concrete  □ Asphalt  □ Stone  □ Earthen
Contributing Source(s): □ Road  □ Parking Lot  □ Recreational Field  □ Other  □ Unknown
Channel Length: ft.
Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Developed By: CT-NRCS
January 2008
## CT - NRCS
### Stream Assessment Worksheet

**Degraded Buffer**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/13/10 10:00 - 1 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: 8/28/10 LC</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>Site ID:</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
</tbody>
</table>

### Location / Extent of Degraded Buffer:
1) Mark and label the location of the degraded buffer on the map.
2) Briefly describe the location of the site relative to roads or other landmarks.

**Entire Reach**

### Mark where the degraded buffer occurs.

<table>
<thead>
<tr>
<th>Category</th>
<th>Left Bank</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meander Bend</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Straight Section</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steep Slope/Valley Wall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td>Estimate length of degraded buffer: 59 m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ft.</td>
<td></td>
</tr>
</tbody>
</table>

### Type of Degradation:

<table>
<thead>
<tr>
<th>Side</th>
<th>Minimal Vegetation</th>
<th>Minimal Width</th>
<th>Invasive Plants</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Dominant Land Cover

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bare Ground</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turf / Lawn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tall Grass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrub / Shrub</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Immediately Adjacent Land Use:

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td></td>
<td>Suburban Residential</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>Industrial</td>
<td></td>
</tr>
<tr>
<td>Commercial</td>
<td>Agricultural</td>
<td></td>
</tr>
<tr>
<td>Forested</td>
<td>Recreational</td>
<td></td>
</tr>
</tbody>
</table>

### Existing Width of Riparian Vegetation:

<table>
<thead>
<tr>
<th>Width</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 15 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 - 35 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35 - 50 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 - 100 ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; 100 ft</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes:
Use the space provided to record important observations otherwise not captured on this sheet.

Developed By: CT-NRCS
January 2008
**CT – NRCS**  
**Stream Assessment Worksheet**  

**Fish Barrier**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 5/13/15</th>
<th>10/11/30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td><strong>Foss Brook</strong></td>
<td>Assessed By: PE/2B/LCD</td>
</tr>
<tr>
<td>Reach Code:</td>
<td><strong>F81</strong></td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

- **2 Fish Barriers:** 
  - 1 Dam, 1 Culvert

**Type of Barrier:** Mark the type of fish barrier.

- [ ] Dam
- [x] Culvert
- [ ] Velocity Barrier
- [ ] Other

**Dam Data:** Provide all relevant data.

- **Height of Dam:** 2 ft.
- **Length of Spillway:** ft.
- **Shape of Spillway:** □ Straight □ Crescent

**Materials:**
- [ ] Stone
- [ ] Concrete
- [ ] Stone & Concrete
- [ ] Timber-Crib
- [ ] Other

**Is there other infrastructure associated with the Dam?** □-No □ Yes (If yes mark the type below)

- [ ] Factory
- [ ] Hydro Facility
- [ ] Mill
- [ ] Residence
- [ ] Other

**Culvert Data:** Provide all relevant data.

- **Type of Culvert:** □ Box □ Pipe □ Pipe-Arch □ Arch
- **Culvert Material:** □ Concrete □ Corrugated Metal □ Plastic □ Stone
- **Culvert Outlet:** □ Perched:........ ft. □ Ramped □ Submerged
- **Culvert Size:** Diameter: 4 ft. Height: ft. Width: ft.
- **# of Culverts:** 2
- **Culvert Length:** 50 ft.

**Velocity Barrier Data:** Provide all relevant data.

- **Nature of Barrier:** □ Grade Control Sill □ Concrete Apron □ Channel Cross-Section □ Other
- **Length of Barrier:** ft. Approx. Vertical Rise: ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

---

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January 2008
CT – NRCS
Stream Assessment Worksheet

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/13/15</th>
<th>10-11-37</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Fae, Prawk</td>
<td>Assessed By: 8/2/16</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>P21</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

*Entire Reach*

**Mark where channel modification occurs:**
- [ ] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Estimate length of channel modification:** 59.8 ft

**Estimate height of bank modification:** 2 ft

**Type of Manipulation:**
- [ ] Channelization
- [ ] Bank Armoring
- [ ] Concrete Channel
- [ ] Other

**Extent of Manipulation:**
- [ ] Right Bank
- [ ] Left Bank
- [ ] Channel Bottom

**Channel / Bank Materials:**
- [ ] Natural
- [ ] Rip Rap
- [ ] Concrete
- [ ] Gabions
- [ ] Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.
- [ ] < 15 ft.
- [ ] 15 - 35 ft.
- [ ] 35 - 50 ft.
- [ ] 50 - 100 ft
- [ ] > 100 ft

Is there a change in the average width of the active channel? [ ] Yes / Estimate Width: ft [ ] No
Is there evidence of sediment deposition in the channel? [ ] Yes [ ] No
Is the channel connected to a floodplain? [ ] Yes [ ] No

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

*One Section 6 ft wall (R Bank) mostly rip rap* 

---

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January 2008
CT-NRCS
Stream Assessment Sheet
Reach Level Assessment

Survey Basin Code:  
Date(s): 8/13/15 1/15 2/20
Name of Stream: Farm Brook  
Assessed By: RE 2/10/10
Reach Code: F82  
Designated Stream Type:

Make All Observations Facing Downstream

Was the entire reach of stream surveyed? Yes  No, Which section(s) were not surveyed? Why?
large patches of marsh, impossible - appears to be mostly wetland.

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

- Step-Pool  - Pool-Riffle  - Run  - Glide  * Manipulated Channel (piped, lined, etc.)

Active Channel Width: 3'
Glide Depth: 4'-6''
Riffle Depth:  
Pool Depth:  
Run Depth:  
Step Height:  
Bank Height (Right Bank):  
Bank Height (Left Bank):  

Substrate Composition: Mark approximate percentages for each substrate type observed.

- Silt or Clay  - Sand  - Gravel (0.1-2 inches)  - Cobble (2-10 inches)  - Boulder (>10 inches)  - Bedrock

<table>
<thead>
<tr>
<th>Substrate Type</th>
<th>&lt;5%</th>
<th>5-25%</th>
<th>25-50%</th>
<th>50-75%</th>
<th>&gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Sand</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Bedrock</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

- Clear  - Stained ("iced tea")  - Turbid (muddy / silty)
- Green  - Rusty-Red  - Milky
- Odors  - Other (foam, dyes, chemicals)

Aquatic Plants in Stream:

- Floating: (e.g. duck weed)  - Absent  - In Spots  - Everywhere
- Attached: (e.g. water lily)  - Absent  - In Spots  - Everywhere

Algae in Stream:

- Floating: (e.g. planktonic)  - Absent  - In Spots  - Everywhere
- Attached: (e.g. filamentous)  - Absent  - In Spots  - Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

- >75% covered  - 75-50% covered  - 50%-25% covered  - <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Area of Concern Worksheets
Indicate # and type of sheets completed for this reach assessment:

- Erosion
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash / Debris
- Water Conditions

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January 2008
## CT-NRCS
### Stream Assessment Sheet
#### Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th>Riparian Vegetation</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>✗ Low</td>
<td>✗ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Grass</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; 1/4 Mile from stream</th>
<th>&gt; 1/4 Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Rural/Residential</td>
<td>☐ Agricultural</td>
<td>☐ Rural/Residential</td>
</tr>
<tr>
<td>☐ Suburban Residential</td>
<td>☐ Forested</td>
<td>☐ Suburban Residential</td>
</tr>
<tr>
<td>☐ Industrial</td>
<td>☐ Other</td>
<td>☐ Industrial</td>
</tr>
<tr>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there evidence of either stream bank erosion or streambed instability within the reach?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Are there any dams or any other possible natural or artificial barriers to fish migration?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Is there any portion of the channel that has been modified (not culvert) (channeled, piped, riprap)?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Is there any portion of the reach that has a change in water conditions?</td>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

---

Developed By CT-NRCS
January 2008
CT – NRCS
Stream Assessment Worksheet

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where erosion is occurring:**
- [ ] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

<table>
<thead>
<tr>
<th>Length:</th>
<th>Left Bank:</th>
<th>ft.</th>
<th>Right Bank:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank Height:</td>
<td>Left Bank:</td>
<td>ft.</td>
<td>Right Bank:</td>
<td>ft.</td>
</tr>
</tbody>
</table>

**What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?**
- [ ] < 15 ft.
- [ ] 15 - 30 ft.
- [ ] 30 - 45 ft.
- [ ] 45 - 60 ft.
- [ ] 60 - 100 ft.
- [ ] > 100 ft.

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.
- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.
- [ ] Public
- [ ] Private
- [ ] Unknown

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.
- [ ] < 15 ft.
- [ ] 15 - 35 ft.
- [ ] 35 - 50 ft.
- [ ] 50 - 100 ft.
- [ ] > 100 ft

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

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January 2008
CT - NRCS
Stream Assessment Worksheet

Visual Water Conditions / Excessive Plant or Algae Growth

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 9/13/16 1:54 - 2:39</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Farm Brook</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>FB 2</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth: 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Farm Brook Reservoir

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

<table>
<thead>
<tr>
<th>Rural Residential</th>
<th>Urban Residential</th>
<th>Commercial</th>
<th>Forested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suburban Residential</td>
<td>Industrial</td>
<td>Agricultural</td>
<td>Recreational</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

<table>
<thead>
<tr>
<th>Clear</th>
<th>Stained (&quot;iced tea&quot;)</th>
<th>Turbid (muddy / silty)</th>
<th>Odors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Rusty-Red</td>
<td>Milky</td>
<td>Other (foam, dyes, chemicals)</td>
</tr>
</tbody>
</table>

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

| >75% covered | 75-50% covered | 50%-25% covered | <25% covered |

Aquatic Plants in Stream:
Floating: (e.g. duck weed) | Absent | In Spots | Everywhere
Attached: (e.g. water lily) | Absent | In Spots | Everywhere

Algae in Stream:
Floating: (e.g. planktonic) | Absent | In Spots | Everywhere
Attached: (e.g. filamentous) | Absent | In Spots | Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall? | Yes | No
Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)? | Yes | No
Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream? | Yes | No

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Rusty Red bacteria near culvert

Developed By CT-NRCS
January 2008
## CT - NRCS
Stream Assessment Worksheet

### Modified Channel

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

### Make All Observations Facing Downstream

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

<table>
<thead>
<tr>
<th>Mark where channel modification occurs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meander Bend</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Estimate length of channel modification:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimate height of bank modification:</td>
<td>ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of Manipulation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channelization</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Extent of Manipulation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right Bank</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel / Bank Materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural</td>
</tr>
</tbody>
</table>

### Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

<table>
<thead>
<tr>
<th>Rural Residential</th>
<th>Urban Residential</th>
<th>Commercial</th>
<th>Forested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suburban Residential</td>
<td>Industrial</td>
<td>Agricultural</td>
<td>Recreational</td>
</tr>
</tbody>
</table>

### Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.

<table>
<thead>
<tr>
<th>&lt; 15 ft.</th>
<th>15 - 35 ft.</th>
<th>35 - 50 ft.</th>
<th>50 - 100 ft</th>
<th>&gt; 100 ft</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Is there a change in the average width of the active channel?</th>
<th>Yes / Estimate Width: ft</th>
<th>No</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Is there evidence of sediment deposition in the channel?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Is the channel connected to a floodplain?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

### Notes: Use the space provided to record important observations otherwise not captured on this sheet.

---

Developed By CT-NRCS
January 2008
CT – NRCS
Stream Assessment Worksheet

Fish Barrier

Survey Basin Code:  
Name of Stream: Farm Brook  
Reach Code: F92  
Designated Stream Type:  
Site ID:  

Date: 4/17/15 1:35 - 2:50  
Assessed By: RE 2B LCP

Location of Barrier: Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

Make All Observations Facing Downstream

Type of Barrier: Mark the type of fish barrier.
- Dam  
- Culvert  
- Velocity Barrier  
- Other

Dam Data: Provide all relevant data.
- Height of Dam: 25 ft.  
- Length of Spillway:  
- Shape of Spillway: Straight  
- Crescent  
Materials:  
- Stone  
- Concrete  
- Stone & Concrete  
- Timber-Crib  
- Other

Is there other infrastructure associated with the Dam?  
- No  
- Yes (If yes mark the type below)

- Factory  
- Hydro Facility  
- Mill  
- Residence  
- Other

Culvert Data: Provide all relevant data.
- Type of Culvert: Box  
- Pipe  
- Pipe-Arch  
- Arch

- Culvert Material: Concrete  
- Corrugated Metal  
- Plastic  
- Stone

- Culvert Outlet: Perched:...... ft.  
- Ramped  
- Submerged

- Culvert Size: Diameter: 3 ft.  
- Height:  
- Width:  

# of Culverts: 60 ft.

Velocity Barrier Data: Provide all relevant data.
- Nature of Barrier: Grade Control Sill  
- Concrete Apron  
- Channel Cross-Section  
- Other

Length of Barrier: 260 ft.  
Approx. Vertical Rise: 70 ft.

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Large Reservoir

Developed By: CT-NRCS
January 2008
**CT – NRCS**

**Stream Assessment Worksheet**

**Storm Water Outfall**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/13/15 1:15 - 2:30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Farm Brook</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>FB2</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:** [ ] Right Bank [ ] Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>[ ] Pipe</th>
<th>[ ] Leak Off</th>
<th>[ ] Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>[ ] None</td>
<td>[ ] Trickle</td>
<td>[ ] Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>[ ] None</td>
<td>[ ] Sewage</td>
<td>[ ] Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>[ ] None</td>
<td>[ ] Sediment Delta</td>
<td>[ ] Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>[ ] None</td>
<td>[ ] Brown</td>
<td>[ ] Green</td>
</tr>
</tbody>
</table>

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>[ ] Concrete</th>
<th>[ ] Corrugated Metal</th>
<th>[ ] Plastic</th>
<th>[ ] Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>[ ] Road</td>
<td>[ ] Parking Lot</td>
<td>[ ] Other</td>
<td>[ ] Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>[ ] Perched…… ft.</td>
<td>[ ] Ramped</td>
<td>[ ] At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 2 ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3 +</td>
<td></td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>[ ] Concrete</th>
<th>[ ] Asphalt</th>
<th>[ ] Stone</th>
<th>[ ] Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>[ ] Road</td>
<td>[ ] Parking Lot</td>
<td>[ ] Recreational Field</td>
<td>[ ] Other</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>[ ] Concrete</th>
<th>[ ] Asphalt</th>
<th>[ ] Stone</th>
<th>[ ] Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>[ ] Road</td>
<td>[ ] Parking Lot</td>
<td>[ ] Recreational Field</td>
<td>[ ] Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

---

Developed By: CT-NRCS  
January 2008
CT - NRCS
Stream Assessment Worksheet

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing** *Downstream*

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- [ ] Within Stream
- [ ] Riparian Area:
- [ ] Left Bank
- [ ] Right Bank

**Type:**
- [ ] Residential
- [ ] Commercial
- [ ] Industrial

**Material:**
- [ ] Plastic
- [ ] Tires
- [ ] Appliances
- [ ] Other
- [ ] Paper
- [ ] Metal
- [ ] Automotive
- [ ] Yard Waste
- [ ] Construction
- [ ] Medical
- [ ] Unknown

**Source:**
- [ ] Unknown
- [ ] Flooding
- [ ] Illegal Dumping
- [ ] Local Outfall
- [ ] Residential
- [ ] Public
- [ ] Unknown

**Land Ownership:**
- [ ] Private
- [ ] Public
- [ ] Unknown

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Developed By CT-NRCS
January 2008
## CT – NRCS
### Stream Assessment Worksheet

**Degraded Buffer**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Degraded Buffer:**
1. Mark and label the location of the degraded buffer on the map.
2. Briefly describe the location of the site relative to roads or other landmarks.

**Mark where the degraded buffer occurs.**

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meander Bend</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Straight Section</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steep Slope/Valley Wall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Estimate length of degraded buffer:**

- Left Bank: [ ]
- Right Bank: [ ]

**Type of Degradation:**

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Right Bank:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimal Vegetation</td>
<td>Minimal Vegetation</td>
</tr>
<tr>
<td>Minimal Width</td>
<td>Minimal Width</td>
</tr>
<tr>
<td>Invasive Plants</td>
<td>Invasive Plants</td>
</tr>
<tr>
<td>Other</td>
<td>Other</td>
</tr>
</tbody>
</table>

**Dominant Land Cover**

<table>
<thead>
<tr>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Right Bank:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>Rural Residential</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>Suburban Residential</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>Urban Residential</td>
</tr>
<tr>
<td>Commercial</td>
<td>Commercial</td>
</tr>
<tr>
<td>Agricultural</td>
<td>Agricultural</td>
</tr>
<tr>
<td>Forested</td>
<td>Forested</td>
</tr>
<tr>
<td>Recreational</td>
<td>Recreational</td>
</tr>
</tbody>
</table>

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Right Bank:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 15 ft.</td>
<td>&lt; 15 ft.</td>
</tr>
<tr>
<td>15 – 35 ft.</td>
<td>15 – 35 ft.</td>
</tr>
<tr>
<td>35 – 50 ft.</td>
<td>35 – 50 ft.</td>
</tr>
<tr>
<td>50 – 100 ft</td>
<td>50 – 100 ft</td>
</tr>
<tr>
<td>&gt; 100 ft</td>
<td>&gt; 100 ft</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

---

Developed By CT-NRCS
January 2008
16 Autumn Ridge Rd. Hamden
CT-NRCS
Stream Assessment Sheet

Survey Basin Code: | Date(s): | 7/21/15 | 7/20/15 | 8/1/15
Name of Stream: FAIR H BROOK | Assessed By: | AB RE
Reach Code: PB# | RE LC
Designated Stream Type:

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed?  □ Yes  □ No, Which section(s) were not surveyed? Why?

### Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

| Active Channel Width: & 2 | Glide Depth:
| Pool Depth: 1 1/2' | Bank Height (Right Bank): 1 1/2' |
| Run Depth: | Bank Height (Left Bank): 1 1/2' |

### Substrate Composition: Mark approximate percentages for each substrate type observed.

| Silt or Clay  | <5% | 5-25% | 25-50% | 50-75% | >75%
| Gravel (0.1-2 inches) | <5% | 5-25% | 25-50% | 50-75% | >75%
| Cobble (2-10 inches) | <5% | 5-25% | 25-50% | 50-75% | >75%
| Boulder (>10 inches) | <5% | 5-25% | 25-50% | 50-75% | >75%

### Describe Water Conditions: Mark all that apply.

| Clear | Stained (“iced tea”) | Turbid (muddy / silty)
| Green | Rusty-Red | Milky
| Odors | Other (foam, dyes, chemicals)

### Aquatic Plants in Stream:

| Floating: (e.g. duck weed) | Absent | In Spots | Everywhere
| Attached: (e.g. water lily) | Absent | In Spots | Everywhere

### Algae in Stream:

| Floating: (e.g. planktonic) | Absent | In Spots | Everywhere
| Attached: (e.g. filamentous) | Absent | In Spots | Everywhere

### Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

| >75% covered | 75-50% covered | 50-25% covered | <25% covered

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

---

**Area of Concern Worksheets**

- Erosion
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash / Debris
- Water Conditions

Developed By CT-NRCS
January 2008
## CT-NRCS
Stream Assessment Sheet

### Reach Level Assessment

#### Riparian Vegetation:
Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th>Riparian Vegetation</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

#### Surrounding Land Use:
Mark the dominant land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Agricultural</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Forested</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Recreational</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Industrial</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Other</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Commercial</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Areas of Concern Checklist:
Marking **Yes** to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach?  
  - Yes  
  - No

- Are there any dams or any other possible natural or artificial barriers to fish migration?  
  - Yes  
  - No

- Are there any storm water outfalls, discharge pipes or discharges within the reach?  
  - Yes  
  - No

#### Notes:
Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

---

Developed By CT-NRCS  
January 2008
# CT - NRCS

## Stream Assessment Worksheet

**Storm Water Outfall**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>Name of Stream: FA MB Brook</th>
<th>Assessed By:</th>
<th>Reach Code: FA 3</th>
<th>Designated Stream Type:</th>
</tr>
</thead>
</table>

### Make All Observations Facing **Downstream**

**Location of Outfall:**  
- [X] Right Bank  
- [X] Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

1. In initial bend of reach, leading into garden.
2. At culvert before pond (outfalls are labeled STO on map)

### Outfall Type:

- [X] Pipe  
- [X] Leak Off  
- [ ] Channel

### Flow:

- [ ] None  
- [X] Trickle (stream)  
- [ ] Moderate  
- [ ] Substantial

### Odor:

- [ ] None  
- [ ] Sewage  
- [ ] Rancid / Sour  
- [ ] Sulfur (rotten eggs)

### Deposits / Stains:

- [ ] None  
- [ ] Sediment Delta  
- [ ] Oily Stain  
- [ ] Black

### Benthic Growth:

- [ ] None  
- [ ] Brown  
- [ ] Green  
- [ ] Orange

### Pipe Data:

*Provide all relevant data.*

- [X] Concrete  
- [X] Corrugated Metal  
- [X] Plastic  
- [ ] Other

### Contributing Source(s):

- [X] Road  
- [ ] Parking Lot  
- [ ] Other  
- [ ] Unknown

### Pipe Outlet:

- [ ] Perched...... ft.  
- [ ] Ramped  
- [X] At Stream Level

### Pipe Size:

- Diameter: 2'-2" ft.

### # of Pipes:

- [ ] 1  
- [ ] 2  
- [X] 3 + 19

### Leak-Off Data:

*Provide all relevant data.*

### Contributing Swale:

- [X] Concrete  
- [X] Asphalt  
- [ ] Stone  
- [ ] Earthen

### Length of Swale:

- ft. 10'

### Width of Swale:

- ft. 2'

### Channel Data:

*Provide all relevant data.*

### Channel Material:

- [ ] Concrete  
- [ ] Asphalt  
- [ ] Stone  
- [ ] Earthen

### Contributing Source(s):

- [ ] Road  
- [ ] Parking Lot  
- [ ] Recreational Field  
- [ ] Other  
- [ ] Unknown

### Channel Length:

- ft.

### Channel Width:

- ft.

### Notes:

Use the space provided to record important observations otherwise not captured on this sheet.

- **Plastic hoses used to water garden**

- **Large box culvert under Hunter's Way had many small seeps draining into culvert - 12 in total**

- **List 5 to before the reservoir had nasty red discharge**

---

Developed By CT-NRCS  
January 2008
CT – NRCS
Stream Assessment Worksheet

Fish Barrier

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>7/21/15 9-10-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Farmland</td>
<td>Assessed By: ABE</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>FB3</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td>8/18/15 RE LCD</td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td>7/21/15</td>
</tr>
</tbody>
</table>

Location of Barrier: Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

Bridge at Autumn Pike Ave. Left culvert too shallow. Right culvert blocked with rocks.

Type of Barrier: Mark the type of fish barrier.

- Dam
- Culvert
- Velocity Barrier
- Other

Dam Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Height of Dam: 20 ft.</th>
<th>Length of Spillway: 10 ft.</th>
<th>Shape of Spillway:</th>
<th>Straight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials:</td>
<td>Stone</td>
<td>Concrete</td>
<td>Stone &amp; Concrete</td>
</tr>
</tbody>
</table>

Is there other infrastructure associated with the Dam? No Yes (If yes mark the type below)

- Factory
- Hydro Facility
- Mill
- Residence
- Other

Culvert Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Type of Culvert:</th>
<th>Box (3)</th>
<th>Pipe</th>
<th>Pipe-Arch</th>
<th>Arch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Culvert Material:</td>
<td>Concrete</td>
<td>Corrugated Metal</td>
<td>Plastic</td>
<td>Stone</td>
</tr>
<tr>
<td>Culvert Outlet:</td>
<td>Perched:...... ft.</td>
<td>Ramped</td>
<td>Submerged</td>
<td></td>
</tr>
<tr>
<td># of Culverts: 2</td>
<td>Culvert Length: 45 ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Velocity Barrier Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Nature of Barrier:</th>
<th>Grade Control Sill</th>
<th>Concrete Apron</th>
<th>Channel Cross-Section</th>
<th>Other</th>
</tr>
</thead>
</table>

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Several cobbles dams
Bedrock slopes

Developed By CT-NRCS
January 2008
CT - NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream: FARMBOOK  
Reach Code: FLB3  
Designated Stream Type:  
Site ID:  
Date: 7/22/15  
Assessed By: AB RE  

Make All Observations Facing Downstream

Location / Extent of Degraded Buffer: 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Mark where the degraded buffer occurs.

- Meander Bend  
- Straight Section  
- Steep Slope/Valley Wall  
- Other  
- Left Bank  
- Right Bank

<table>
<thead>
<tr>
<th>Type of Degradation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank:</td>
</tr>
</tbody>
</table>
- Minimal Vegetation  
- Minimal Width  
- Invasive Plants  
- Other  
| Right Bank: |  
- Minimal Vegetation  
- Minimal Width  
- Invasive Plants  
- Other  

<table>
<thead>
<tr>
<th>Dominate Land Cover</th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

<table>
<thead>
<tr>
<th>Left Bank:</th>
</tr>
</thead>
</table>
| - Suburban Residential  
| - Industrial  
| - Agricultural  
| - Recreational  

<table>
<thead>
<tr>
<th>Right Bank:</th>
</tr>
</thead>
</table>
| - Rural Residential  
| - Urban Residential  
| - Commercial  
| - Forested  
| - Suburban Residential  
| - Industrial  
| - Agricultural  
| - Recreational  

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.

<table>
<thead>
<tr>
<th>Left Bank:</th>
</tr>
</thead>
</table>
| - < 15 ft.  
| - 15 - 35 ft.  
| - 35 - 50 ft.  
| - 50 - 100 ft.  
| - > 100 ft.  

<table>
<thead>
<tr>
<th>Right Bank:</th>
</tr>
</thead>
</table>
| - < 15 ft.  
| - 15 - 35 ft.  
| - 35 - 50 ft.  
| - 50 - 100 ft.  
| - > 100 ft.  

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Lawn of house on left bank.
CT-NRCS
Stream Assessment Sheet

Survey Basin Code: 
Name of Stream: Fanno Brook
Reach Code: F 4
Designated Stream Type: 

Date(s): 8-18-15 11-15-13
Assessed By: RE LEO

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed? □ Yes □ No, Which section(s) were not surveyed? Why?

The stream bed was dry.

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>□ Step-Pool</th>
<th>□ Pool-Riffle</th>
<th>□ Run</th>
<th>□ Glide</th>
<th>*□ Manipulated Channel (piped, lined, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Channel Width:</td>
<td>Glide Depth:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Riffle Depth:</td>
<td>Step Height:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pool Depth:</td>
<td>Bank Height (Right Bank):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run Depth:</td>
<td>Bank Height (Left Bank):</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Substrate Composition: Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Silt or Clay</th>
<th>□ &lt;5%</th>
<th>□ 5-25%</th>
<th>□ 25-50%</th>
<th>□ 50-75%</th>
<th>□ &gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
<tr>
<td>Bedrock</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

<table>
<thead>
<tr>
<th>□ Clear</th>
<th>□ Stained (&quot;iced tea&quot;)</th>
<th>*□ Turbid (muddy/silty)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*□ Green</td>
<td>*□ Rusty-Red</td>
<td>*□ Milky</td>
</tr>
<tr>
<td>*□ Odors</td>
<td>*□ Other (foam, dyes, chemicals)</td>
<td></td>
</tr>
</tbody>
</table>

Aquatic Plants in Stream:

Floating: (e.g. duck weed) | □ Absent | □ In Spots | *□ Everywhere |
| Attached: (e.g. water lily) | □ Absent | □ In Spots | *□ Everywhere |

Algae in Stream:

Floating: (e.g. planktonic) | □ Absent | □ In Spots | *□ Everywhere |
| Attached: (e.g. filamentous) | □ Absent | □ In Spots | *□ Everywhere |

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

□ >75% covered | □ 75-50% covered | □ 50-25% covered | □ <25% covered

Area of Concern Worksheets: Indicate # and type of sheets completed for this reach assessment.

- Erosion
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash / Debris
- Water Conditions

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Developed By: CT-NRCS
January 2008
**CT-NRCS**
Stream Assessment Sheet

**Reach Level Assessment**

**Riparian Vegetation:** Characterize the average density of vegetation in the first 25 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Moderate</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominant land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>□ Agricultural</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>□ Forested</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>□ Recreational</td>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>Industrial</td>
<td>□ Other</td>
<td>□ Industrial</td>
</tr>
<tr>
<td>Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: □ Yes □ No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, riprap)? □ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? □ Yes □ No
- Is there any portion of the reach that has a change in water conditions? □ Yes □ No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
## CT – NRCS
Stream Assessment Worksheet

### Visual Water Conditions / Excessive Plant or Algae Growth

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 08/18/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream: Farm Brook</td>
<td>Assessed By: C.R. LCD</td>
</tr>
<tr>
<td>Reach Code: E03</td>
<td>Designated Stream Type:</td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

### Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:
1. Mark and label the location on the map. 
2. Briefly describe the location of the site relative to roads or other landmarks.

### Immediately Adjacent Land Use:
Mark the land use(s) immediately adjacent to the modified section.
- Rural Residential
- Urban Residential
- Commercial
- Forested
- Suburban Residential
- Industrial
- Agricultural
- Recreational

### Describe Water Conditions:
Mark all that apply.
- Clear
- Stained ("iced tea")
- Turbid (muddy / silty)
- Odors
- Green
- Rusty-Red
- Milky
- Other (foam, dyes, chemicals)

### Canopy Cover:
Mark approximate percentage of stream covered by tree canopy.
- >75% covered
- 75-50% covered
- 50%-25% covered
- < 25% covered

### Aquatic Plants in Stream:
- Floating: (e.g. duck weed)
  - Absent
  - In Spots
  - Everywhere
- Attached: (e.g. water lily)
  - Absent
  - In Spots
  - Everywhere

### Algae in Stream:
- Floating: (e.g. planktonic)
  - Absent
  - In Spots
  - Everywhere
- Attached: (e.g. filamentous)
  - Absent
  - In Spots
  - Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall? Yes | No

Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)? Yes | No

Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream? Yes | No

### Notes:
Use the space provided to record important observations otherwise not captured on this sheet.

Change is downstream of Farm Brook Reservoir

---

Developed By: CT-NRCS
January 2008
Completed Stream Assessment Forms
Lower West River
# CT - NRCS
Stream Assessment Worksheet

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 5/19/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>West River</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td>#1</td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location of Outfall:**

- [ ] Right Bank
- [x] Left Bank

Mark and label the location of the outfall on the [map](#) and provide a brief description of the location of the outfall relative to roads or other landmarks.

**Latitude:** 41.293°
**Longitude:** -72.956°

![Map Image]

1. on Map: Drainage thru Rip Rap

**Outfall Type:**

- [ ] Pipe
- [ ] Leak Off
- [ ] Channel
- [ ] Flow thru Rip Rap

**Flow:**

- [ ] None
- [ ] Trickle
- [x] Moderate
- [ ] Substantial
- [ ] Rancid / Sour
- [ ] Sulfur (rotten eggs)

**Odor:**

- [ ] None
- [ ] Sewage
- [ ] Sediment Delta
- [ ] Oily Stain
- [ ] Black

**Deposits / Stains:**

- [ ] None
- [ ] Sediment Delta
- [ ] Oily Stain
- [ ] Black

**Benthic Growth:**

- [ ] None
- [ ] Brown
- [ ] Green
- [ ] Orange

**Pipe Data:** Provide all relevant data.

**Pipe Material:**

- [ ] Concrete
- [ ] Corrugated Metal
- [ ] Plastic
- [ ] Other

**Contributing Source(s):**

- [ ] Road
- [ ] Parking Lot
- [ ] Other
- [x] Unknown

**Pipe Outlet:**

- [ ] Perched...... ft.
- [ ] Ramped
- [ ] At Stream Level

**Pipe Size:**

- Diameter: ft.

**# of Pipes:**

- [ ] 1
- [ ] 2
- [ ] 3 +

**Leak-Off Data:** Provide all relevant data.

**Leak-Off Swale:**

- [ ] Concrete
- [ ] Asphalt
- [ ] Stone
- [ ] Earthen

**Contributing Source(s):**

- [x] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [ ] Other

**Length of Swale:** ft.

**Width of Swale:** ft.

**Channel Data:** Provide all relevant data.

**Channel Material:**

- [ ] Concrete
- [ ] Asphalt
- [ ] Stone
- [ ] Earthen

**Contributing Source(s):**

- [ ] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [x] Other
- [ ] Unknown

**Channel Length:** ft.

**Channel Width:** ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Bank has rip rap, flow from above area has construction material storage.
CT – NRCS  
Stream Assessment Worksheet  
Storm Water Outfall

Survey Basin Code:  
Name of Stream: West River  
Reach Code:  
Designated Stream Type:  
Site ID: #2  
Date: 8/19/15  
Assessed By: Gary Erdak  
Frank DeLeo  
Frank Canevaro

Make All Observations Facing Downstream

Location of Outfall: □ Right Bank □ Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Lattitude - 41.27351°  Longitude - 72.95009°

#2 on Map - Appears to be a line behind the ry ry.

Outfall Type: □ Pipe □ Leak Off □ Channel □ Floodway

Flow: □ None □ Trickle □ Moderate □ Substantial

Odor: □ None □ Sewage □ Rancid / Sour □ Sulfur (rotten eggs)

Deposits / Stains: □ None □ Sediment Delta □ Oily Stain □ Black

Benthic Growth: □ None □ Brown □ Green □ Orange

Pipe Data: Provide all relevant data.

Pipe Material: □ Concrete □ Corrugated Metal □ Plastic □ Other

Contributing Source(s): □ Road □ Parking Lot □ Other □ Unknown

Pipe Outlet: □ Perched …… ft. □ Ramped □ At Stream Level

Pipe Size: □ Diameter: ft. □ 1 □ 2 □ 3 +

Leak-Off Data: Provide all relevant data.

Leak-Off Swale: □ Concrete □ Asphalt □ Stone □ Earthen

Contributing Source(s): □ Road □ Parking Lot □ Recreational Field □ Other

Length of Swale: ft.

Width of Swale: ft.

Channel Data: Provide all relevant data.

Channel Material: □ Concrete □ Asphalt □ Stone □ Earthen

Contributing Source(s): □ Road □ Parking Lot □ Recreational Field □ Other □ Unknown

Channel Length: ft.

Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Cloudy discharge and odorous, discharge is in line with Printer's Lane, storm sewer from #2 catch basins is shown on GIS map.
### CT – NRCS
Stream Assessment Worksheet

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/19/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>West River</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td>#3</td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location of Outfall:**
- [X] Left Bank
- Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

**#3 on Map – Appears to drain from Flea Market Parking Lot**

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pipe</td>
</tr>
<tr>
<td></td>
<td>Leak Off</td>
</tr>
<tr>
<td></td>
<td>Channel</td>
</tr>
<tr>
<td></td>
<td>Thru Rip Rap</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flow:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>N/Trickle</td>
</tr>
<tr>
<td></td>
<td>Moderate</td>
</tr>
<tr>
<td></td>
<td>Substantial</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Odor:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Sewage</td>
</tr>
<tr>
<td></td>
<td>Rancid / Sour</td>
</tr>
<tr>
<td></td>
<td>Sulfur (rotten eggs)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Deposits / Stains:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Sediment Delta</td>
</tr>
<tr>
<td></td>
<td>Oily Stain</td>
</tr>
<tr>
<td></td>
<td>Black</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Benthic Growth:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Brown</td>
</tr>
<tr>
<td></td>
<td>Green</td>
</tr>
<tr>
<td></td>
<td>Orange</td>
</tr>
</tbody>
</table>

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concrete</td>
</tr>
<tr>
<td></td>
<td>Corrugated Metal</td>
</tr>
<tr>
<td></td>
<td>Plastic</td>
</tr>
<tr>
<td></td>
<td>Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contributing Source(s):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Road</td>
</tr>
<tr>
<td></td>
<td>Parking Lot</td>
</tr>
<tr>
<td></td>
<td>Other</td>
</tr>
<tr>
<td></td>
<td>Unknown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pipe Outlet:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Perched......</td>
</tr>
<tr>
<td></td>
<td>ft.</td>
</tr>
<tr>
<td></td>
<td>Ramped</td>
</tr>
<tr>
<td></td>
<td>At Stream Level</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pipe Size:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter:</td>
<td>ft.</td>
</tr>
<tr>
<td># of Pipes:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>3+</td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concrete</td>
</tr>
<tr>
<td></td>
<td>Asphalt</td>
</tr>
<tr>
<td></td>
<td>Stone</td>
</tr>
<tr>
<td></td>
<td>Earthen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contributing Source(s):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Road</td>
</tr>
<tr>
<td></td>
<td>Parking Lot</td>
</tr>
<tr>
<td></td>
<td>Recreational Field</td>
</tr>
<tr>
<td></td>
<td>Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length of Swale:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
</tr>
</tbody>
</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concrete</td>
</tr>
<tr>
<td></td>
<td>Asphalt</td>
</tr>
<tr>
<td></td>
<td>Stone</td>
</tr>
<tr>
<td></td>
<td>Earthen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contributing Source(s):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Road</td>
</tr>
<tr>
<td></td>
<td>Parking Lot</td>
</tr>
<tr>
<td></td>
<td>Recreational Field</td>
</tr>
<tr>
<td></td>
<td>Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel Length:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

---

Developed By: CT-NRCS
January 2008
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:  
Name of Stream: West River  
Reach Code:  
Designated Stream Type:  
Site ID: # 4

Date: 8/19/15  
Assessed By: Gary Zalew  
Frank Delcore  
Frank Cochran

Make All Observations Facing **Downstream**

**Location of Outfall:** ☑ Right Bank  □ Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Latitude: 41.29703°  Longitude: -72.9506°

#4 on Map  Tide Gate on West side has loose gate.

**Outfall Type:**  
□ Pipe  □ Leak Off  □ Channel  

**Flow:**  
□ None  □ Trickle  □ Moderate  □ Substantial  

**Odor:**  
□ None  □ Sewage  □ Rancid / Sour  □ Sulfur (rotten eggs)

**Deposits / Stains**  
□ None  □ Sediment Delta  □ Oily Stain  □ Black  

**Benthic Growth**  
□ None  □ Brown  □ Green  □ Orange

**Pipe Data:** Provide all relevant data.

**Pipe Material:**  
□ Concrete  □ Corrugated Metal  □ Plastic  □ Other

**Contributing Source(s):**  
□ Road  □ Parking Lot  □ Other  □ Unknown

**Pipe Outlet:**  
□ Perched…… ft.  □ Ramped  □ At Stream Level

**Pipe Size:**  
Diameter: ft.

**# of Pipes:**  
□ 1  □ 2  □ 3 +

**Leak-Off Data:** Provide all relevant data.

**Leak-Off Swale:**  
□ Concrete  □ Asphalt  □ Stone  □ Earthen

**Contributing Source(s):**  
□ Road  □ Parking Lot  □ Recreational Field  □ Other

**Length of Swale:** ft.

**Width of Swale:** ft.

**Channel Data:** Provide all relevant data.

**Channel Material:**  
□ Concrete  □ Asphalt  □ Stone  □ Earthen

**Contributing Source(s):**  
□ Road  □ Parking Lot  □ Recreational Field  □ Other  □ Unknown

**Channel Length:** ft.

**Channel Width:** ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

Developed By: CT-NRCS
January 2008
CT – NRCS  
Stream Assessment Worksheet  
Storm Water Outfall

Survey Basin Code:  
Name of Stream:  
Reach Code:  
Designated Stream Type:  
Site ID:  
Date: 8/9/15  
Assessed By:  

Make All Observations Facing Downstream

Location of Outfall:  
Right Bank ✔  
Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Latitude 41.29242° Longitude -72.9402°

#5 on Map  Parking Lot drainage from the Academy

Outfall Type:  
□ Pipe  
□ Leak Off  
□ Channel  
□ Substantial

Flow:  
□ None  
□ Trickle  
□ Moderate  
□ Rancid / Sour  
□ Sulfur (rotten eggs)

Odor:  
□ None  
□ Sewage  
□ Green  
□ Black

Deposits / Stains:  
□ None  
□ Sediment Delta  
□ Oily Stain  
□ Brown  
□ Orange

Benthic Growth:  
□ None  
□ Brown  
□ Oily Stain  
□ Substantial

Pipe Data: Provide all relevant data.

Pipe Material:  
□ Concrete  
□ Corrugated Metal  
□ Plastic  
□ Other

Contributing Source(s):  
□ Road  
□ Parking Lot  
□ Other  
□ Unknown

Pipe Outlet:  
□ Perched…… ft.  
□ Ramped  
□ At Stream Level

Pipe Size:  
Diameter: ft.

# of Pipes:  
□ 1  
□ 2  
□ 3 +

Leak-Off Data: Provide all relevant data.

Leak-Off Swale:  
□ Concrete  
□ Asphalt  
□ Stone  
□ Earthen

Contributing Source(s):  
□ Road  
□ Parking Lot  
□ Recreational Field  
□ Other

Length of Swale: ft.

Width of Swale: ft.

Channel Data: Provide all relevant data.

Channel Material:  
□ Concrete  
□ Asphalt  
□ Stone  
□ Earthen

Contributing Source(s):  
□ Road  
□ Parking Lot  
□ Recreational Field  
□ Other  
□ Unknown

Channel Length: ft.

Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code:  
Name of Stream: West Mill  
Reach Code: LW-1  
Assessed By:  
Date(s): 8/13/15  
Designated Stream Type:  

Make All Observations Facing Downstream

Was the entire reach of stream surveyed? ☒ Yes ☐ No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

- Step-Pool  ☐ Pool-Riffle  ☒ Run  ☐ Glide  ☐ Manipulated Channel (piped, lined, etc.)
- Active Channel Width: 200  
- Glide Depth:
- Riffle Depth:
- Pool Depth:  
- Run Depth: > 5'
- Bank Height (Right Bank): 6'
- Bank Height (Left Bank): 6'

Substrate Composition: Mark approximate percentages for each substrate type observed.

- Silt or Clay  ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☒ 50-75%  ☐ >75%
- Sand  ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☒ 50-75%  ☐ >75%
- Gravel (0.1-2 inches)  ☐ <5%  ☒ 5-25%  ☐ 25-50%  ☒ 50-75%  ☐ >75%
- Cobble (2-10 inches)  ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Boulder (>10 inches)  ☒ <5%  ☐ 5-25%  ☐ 25-50%  ☒ 50-75%  ☐ >75%
- Bedrock  ☒ <5%  ☐ 5-25%  ☐ 25-50%  ☒ 50-75%  ☐ >75%

Describe Water Conditions: Mark all that apply.

- ☐ Clear  ☒ Stained ("iced tea")  ☒ Turbid (muddy / silty)
- ☐ Green  ☒ Rusty-Red  ☒ Milky
- ☒ Odors  ☒ Other (foam, dyes, chemicals)

Aquatic Plants in Stream:

- Floating: (e.g. duck weed)  ☒ Absent  ☐ In Spots  ☒ Everywhere
- Attached: (e.g. water lily)  ☒ Absent  ☐ In Spots  ☒ Everywhere

Algae in Stream:

- Floating: (e.g. planktonic)  ☒ Absent  ☐ In Spots  ☒ Everywhere
- Attached: (e.g. filamentous)  ☒ Absent  ☐ In Spots  ☒ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

- ☐ >75% covered  ☐ 75-50% covered  ☐ 50-25% covered  ☒ <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Area of Concern Worksheets
Indicate # and type of sheets completed for this reach assessment:
- Erosion  
- Fish Barrier  
- Storm Water Outfall  
- Modified Channel  
- Impacted Buffer  
- Trash / Debris  
- Water Conditions

Developed By CT-NRCS
January 2008
### CT-NRCS
Stream Assessment Sheet

#### Reach Level Assessment

<table>
<thead>
<tr>
<th>Riparian Vegetation:</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>☑ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

#### Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>Agricultural</td>
<td>Rural Residential</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>Forested</td>
<td>Suburban Residential</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>Recreational</td>
<td>Urban Residential</td>
</tr>
<tr>
<td>Industrial</td>
<td>Other</td>
<td>Industrial</td>
</tr>
<tr>
<td>Commercial</td>
<td>Commercial</td>
<td>Commercial</td>
</tr>
</tbody>
</table>

#### Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? ☑ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? ☑ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 0, 2, 10, NOT AT BRIDGES
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, riprap)? ☑ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? ☑ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cans, appliances, construction waste)? ☑ Yes □ No
- Is there any portion of the reach that has a change in water conditions? ☑ Yes □ No

#### Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/13/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>NW-1</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Degraded Buffer:**
1) Mark and label the location of the degraded buffer on the map.
2) Briefly describe the location of the site relative to roads or other landmarks.

- Banks have Spartina immediately at bank, with Phragmites.
- Further inland, some runoff and animal width.

**Mark where the degraded buffer occurs.**

<table>
<thead>
<tr>
<th>Meander Bend</th>
<th>Straight Section</th>
<th>Steep Slope/Valley Wall</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Left Bank</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☑ Right Bank</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Type of Degradation:**

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Minimal Vegetation</th>
<th>Minimal Width</th>
<th>Invasive Plants</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right Bank</td>
<td>☑ Minimal Vegetation</td>
<td>☑ Minimal Width</td>
<td>☑ Invasive Plants</td>
<td></td>
</tr>
</tbody>
</table>

**Dominate Land Cover:**

<table>
<thead>
<tr>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Left Bank</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>☑ Right Bank</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

**Immediately Adjacent Land Use:**
Mark the land use(s) immediately adjacent to the modified section.

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Rural Residential</th>
<th>Urban Residential</th>
<th>Commercial</th>
<th>Forested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suburban Residential</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
<tr>
<td>Right Bank:</td>
<td>Rural Residential</td>
<td>Urban Residential</td>
<td>Commercial</td>
<td>Forested</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
</tbody>
</table>

**Existing Width of Riparian Vegetation:**
Mark the average width of riparian vegetation to the modified section.

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Rural Residential</th>
<th>Urban Residential</th>
<th>Commercial</th>
<th>Forested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suburban Residential</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
<tr>
<td>Right Bank:</td>
<td>Rural Residential</td>
<td>Urban Residential</td>
<td>Commercial</td>
<td>Forested</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>☑</td>
<td>☐</td>
<td>☐</td>
<td>☑</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code: [Blank]
Name of Stream: WEST RIVER
Reach Code: LW - 1
Designated Stream Type: [Blank]
Site ID: [Blank]

Date: 8/13/15
Assessed By: GP TEAM

Make All Observations Facing Downstream

Location of Outfall: [Check] Right Bank [Check] Left Bank
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Multiple PVC outfalls on SPRING ST + 1-95 - ALL DRY
2 15' CONE OUTFALLS + SPRING ST. - 1 TRICULC (DRY)
ONE LEAK OUTFALL NEAR RR BRIDGE

Outfall Type: [Check] Pipe [Check] Leak Off [Blank] Channel


Odor: [Check] None [Blank] Sewage [Check] Rancid / Sour [Blank] Sulfur (rotten eggs)


Pipe Data: Provide all relevant data.


Contributing Source(s): [Check] Road [Blank] Parking Lot [Blank] Other [Blank] Unknown

Pipe Outlet: [Check] Perched 3 ft to 10 ft [Blank] Ramped [Check] At Stream Level

Pipe Size: Diameter 3 to 18.5 ft

# of Pipes: [Blank] 1 [Blank] 2 [Check] 3 + MANY

Leak-Off Data: Provide all relevant data.


Length of Swale: 15 ft.
Width of Swale: 6 ft.

Channel Data: Provide all relevant data.


Channel Length: ft.
Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet

Developed By CT-NRCS
January 2008
<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/13/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: G' TEAM</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

- Rip Rap Armoring Along River Bank - Railroad To Spring St.

**Mark where channel modification occurs:**
- □ Meander Bend
- □ Straight Section
- □ Steep Slope/Valley Wall
- □ Other

**Estimate length of channel modification:** 3000 ft.

**Estimate height of bank modification:** 3 ft.

**Type of Manipulation:**
- □ Channelization
- □ Bank Armoring
- □ Concrete Channel
- □ Other

**Extent of Manipulation:**
- □ Right Bank
- □ Left Bank
- □ Channel Bottom

**Channel / Bank Materials:**
- □ Natural
- □ Rip Rap
- □ Concrete
- □ Gabions
- □ Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- □ Rural Residential
- □ Urban Residential
- □ Commercial
- □ Forested
- □ Suburban Residential
- □ Industrial
- □ Agricultural
- □ Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.
- □ < 15 ft.
- □ 15 - 35 ft.
- □ 35 - 50 ft.
- □ 50 - 100 ft
- □ > 100 ft

**Is there a change in the average width of the active channel?**
- □ Yes / Estimate Width: 10 ft
- □ No

**Is there evidence of sediment deposition in the channel?**
- □ Yes
- □ No

**Is the channel connected to a floodplain?**
- □ Yes
- □ No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>LW 2</th>
<th>Date(s): 8/14-2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>West River</td>
<td>Assessed By: Frank Cochran, Frank DiLeo</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>LW 2</td>
<td>Gary Zrelak</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

Was the entire reach of stream surveyed? ☒ Yes  ☐ No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

- ☐ Step-Pool
- ☐ Pool-Ripple
- ☐ Run
- ☐ Glide
- ☐ Manipulated Channel (piped, lined, etc.)

<table>
<thead>
<tr>
<th>Active Channel Width:</th>
<th>80'-120'</th>
<th>Glide Depth:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riffle Depth:</td>
<td></td>
<td>Step Height:</td>
</tr>
<tr>
<td>Pool Depth:</td>
<td></td>
<td>Bank Height (Right Bank): 3' - 5'</td>
</tr>
<tr>
<td>Run Depth:</td>
<td></td>
<td>Bank Height (Left Bank): 6' - 7'</td>
</tr>
</tbody>
</table>

Substrate Composition: Mark approximate percentages for each substrate type observed.

- Silt or Clay: ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Sand: ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Gravel (0.1-2 inches): ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Cobble (2-10 inches): ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Boulder (>10 inches): ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%
- Bedrock: ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%

Describe Water Conditions: Mark all that apply.

- ☐ Clear  ☐ Stained ("iced tea")  ☒ Turbid (muddy / silty)
- ☒ Green  ☒ Rusty-Red  ☐ Milky
- ☒ Odors  ☐ Other (foam, dyes, chemicals)

Aquatic Plants in Stream:
- Floating: (e.g. duck weed) ☒ Absent  ☐ In Spots  ☒ Everywhere
- Attached: (e.g. water lily) ☒ Absent  ☐ In Spots  ☒ Everywhere

Algae in Stream:
- Floating: (e.g. planktonic) ☒ Absent  ☐ In Spots  ☒ Everywhere
- Attached: (e.g. filamentous) ☒ Absent  ☐ In Spots  ☒ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

- ☐ >75% covered  ☐ 75-50% covered  ☐ 50%-25% covered  ☒ < 25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Area of Concern Worksheets
Indicate # and type of sheets completed for this reach assessment
- ☒ Erosion
- ☒ Fish Barrier
- ☒ Storm Water Outfall
- ☒ Modified Channel
- ☒ Impacted Buffer
- ☒ Trash / Debris
- ☒ Water Conditions

Developed By: CT-NRCS
January 2008
CT-NRCS
Stream Assessment Sheet
Reach Level Assessment

| Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks. |
| Left Bank | Right Bank | Left Bank | Right Bank | Left Bank | Right Bank |
| Turf Grass | Low | Low | Moderate | Moderate | High | High |
| Grass | Low | Low | Moderate | Moderate | High | High |
| Shrubs | Low | Low | Moderate | Moderate | High | High |
| Deciduous Trees | Low | Low | Moderate | Moderate | High | High |
| Coniferous Trees | Low | Low | Moderate | Moderate | High | High |

| Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed. |
| Immediately adjacent to stream | < 1/4 Mile from stream | > 1/4 Mile from stream |
| Rural Residential | Agricultural | Rural Residential | Agricultural |
| Suburban Residential | Forested | Suburban Residential | Forested |
| Urban Residential | Recreational | Urban Residential | Recreational |
| Industry | Commercial | Commercial |

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? Yes No
- Are there any dams or any other possible natural or artificial barriers to fish migration? Yes No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: Yes No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? Yes No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? Yes No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? Yes No
- Is there any portion of the reach that has a change in water conditions? Yes No

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

1. Much of the buffer and surrounding abutting land on the right hand (westerly side) is tidal wetland.
2. As to stream bank erosion, there was evidence in many places of previous efforts to address and a few where more may be needed.
3. Fish barriers= tide gates
4. Much of the "riparian buffer" consists of old rip rap with vegetated infill.
### CT-NRCS
#### Stream Assessment Sheet

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Grass</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt;¼ Mile from stream</th>
<th>&gt;¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Rural Residential</td>
<td>☐ Agricultural</td>
<td>☐ Rural Residential</td>
</tr>
<tr>
<td>☐ Suburban Residential</td>
<td>☐ Forested</td>
<td>☐ Suburban Residential</td>
</tr>
<tr>
<td>☐ Urban Residential</td>
<td>☐ Recreational</td>
<td>☐ Urban Residential</td>
</tr>
<tr>
<td>☐ Industrial</td>
<td>☐ Other</td>
<td>☐ Industrial</td>
</tr>
<tr>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? ☐ Yes ☐ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? ☐ Yes ☐ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 
  - ☐ Yes ☐ No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? ☐ Yes ☐ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? ☐ Yes ☐ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? ☐ Yes ☐ No
- Is there any portion of the reach that has a change in water conditions? ☐ Yes ☐ No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
General Notes

1. Behind Riverside Academy, our launch site, there is a vegetative buffer, believed to be Spartina, and half of it mowed, but seemingly healthy. We launched over the mud flat adjoining it, at low tide, disturbing some of the vast quantity of fiddler crabs seen throughout our survey. A formal boat launch should be constructed at that site for kayaks & canoes.

2. The water turbidity was general: one could not see the substrate more than a foot. While most of this was probably silt, some may have been fecal material which "bounces" on tide changes.

3. Whatever the water quality issues, the birds are doing well. We saw waders of all sizes, jumping fish and literally thousands of crabs as well as mussels, oysters (some growing on chunks of asphalt.)

4. Probably most noticeable is the salt marsh to the west (right) of this reach. It is extensive and appears to serve as buffer for the several uses beyond. Also notable is a deteriorated trolley bridge; pilings remain there and for two docking or viewing facilities in this reach.
# CT - NRCS

## Stream Assessment Worksheet

### Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing **Downstream**

**Location of Outfall:**  
- Right Bank  
- Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>Pipe</th>
<th>Leak Off</th>
<th>Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>None</td>
<td>Trickle</td>
<td>Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>None</td>
<td>Sewage</td>
<td>Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains</td>
<td>None</td>
<td>Sediment Delta</td>
<td>Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth</td>
<td>None</td>
<td>Brown</td>
<td>Green</td>
</tr>
</tbody>
</table>

**Pipe Data:** Provide all relevant data.

- **Pipe Material:**  
  - Concrete  
  - Corrugated Metal  
  - Plastic  
  - Other  
  - Other  
  - Unknown  

- **Contributing Source(s):**  
  - Road  
  - Parking Lot  
  - Other  
  - Unknown  

- **Pipe Outlet:**  
  - Perched  
  - Ramped  
  - At Stream Level  

- **Pipe Size:**  
  - Diameter: ft.  

- **# of Pipes:**  
  - 1  
  - 2  
  - 3 +

**Leak-Off Data:** Provide all relevant data.

- **Leak-Off Swale:**  
  - Concrete  
  - Asphalt  
  - Stone  
  - Earthen  

- **Contributing Source(s):**  
  - Road  
  - Parking Lot  
  - Recreational Field  
  - Other  
  - Unknown  

- **Length of Swale:** ft.  

- **Width of Swale:** ft.  

**Channel Data:** Provide all relevant data.

- **Channel Material:**  
  - Concrete  
  - Asphalt  
  - Stone  
  - Earthen  

- **Contributing Source(s):**  
  - Road  
  - Parking Lot  
  - Recreational Field  
  - Other  
  - Unknown  

- **Channel Length:** ft.  

- **Channel Width:** ft.  

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

---

Developed By: CT-NRCS  
January 2008
CT - NRCS
Stream Assessment Worksheet

Erosion Assessment

Survey Basin Code:  
Date: 8/19/2016

Name of Stream: West River  
Assessed By: Frank Cochran, Frank Dileo

Reach Code: W2  
Gary Zrelak

Designated Stream Type:  
Site ID:

Make All Observations Facing Downstream

Location of Bank Erosion: 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Mark where erosion is occurring:

- Meander Bend  
- Straight Section  
- Steep Slope/Valley Wall  
- Other

Site Dimensions: Indicate all applicable measurements associated with the erosion site

<table>
<thead>
<tr>
<th></th>
<th>Left Bank:</th>
<th>ft.</th>
<th>Right Bank:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bank Height</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bank Angle</td>
<td></td>
<td>deg.</td>
<td></td>
<td>deg.</td>
</tr>
</tbody>
</table>

What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?

- ☐ < 15 ft.  
- ☐ 15 - 30 ft.  
- ☐ 30 - 45 ft.  
- ☐ 45 - 60 ft.  
- ☒ 60 - 100 ft.  
- ☐ > 100 ft.

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the erosion site.

- ☐ Rural Residential  
- ☐ Urban Residential  
- ☒ Commercial  
- ☐ Forested  
- ☐ Suburban Residential  
- ☐ Industrial  
- ☒ Agricultural  
- ☐ Recreational

Land Ownership: Mark land ownership at the location of the erosion site.

- ☐ Public  
- ☒ Private  
- ☐ Unknown

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation at the erosion site.

- ☐ < 15 ft.  
- ☐ 15 - 35 ft.  
- ☐ 35 - 50 ft.  
- ☐ 50 - 100 ft.  
- ☐ > 100 ft.

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

- Someone had cut a trail through vegetation - erosion created mud/sand bar much favored by small shore birds.

- N.B. There were numerous points, particularly along the left side with evidence of old erosion remedied by "formal and informal" ship ramp composed of stone, old blacktop tires and, in one instance, an engine block. We do not advise disturbing this pattern.

Developed By: CT-NRCS  
January 2008
## CT – NRCS
### Stream Assessment Worksheet

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Degraded Buffer**

### Make All Observations Facing *Downstream*

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

<table>
<thead>
<tr>
<th>Mark where the degraded buffer occurs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Meander Bend</td>
</tr>
<tr>
<td>☐ Straight Section</td>
</tr>
<tr>
<td>☐ Steep Slope/Valley Wall</td>
</tr>
<tr>
<td>☐ Other</td>
</tr>
<tr>
<td>☐ Left Bank</td>
</tr>
<tr>
<td>Estimate length of degraded buffer:</td>
</tr>
<tr>
<td>☐ Right Bank</td>
</tr>
<tr>
<td>Estimate length of degraded buffer:</td>
</tr>
</tbody>
</table>

**Type of Degradation:**

| Left Bank: | ☐ Minimal Vegetation | ☐ Minimal Width | ☐ Invasive Plants | ☐ Other |
| Right Bank:| ☐ Minimal Vegetation | ☐ Minimal Width | ☐ Invasive Plants | ☐ Other |

**Dominant Land Cover:**

<table>
<thead>
<tr>
<th>Land Cover</th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Right Bank</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

| Left Bank: | ☐ Rural Residential | ☐ Urban Residential | ☐ Commercial | ☐ Forested |
| Right Bank:| ☐ Rural Residential | ☐ Urban Residential | ☐ Commercial | ☐ Forested |

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

| Left Bank: | ☐ < 15 ft. | ☐ 15 – 35 ft. | ☐ 35 – 50 ft. | ☐ 50 – 100 ft | ☐ > 100 ft |
| Right Bank:| ☐ < 15 ft. | ☐ 15 – 35 ft. | ☐ 35 – 50 ft. | ☐ 50 – 100 ft | ☐ > 100 ft |

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

---

Developed By: CT-NRCS  
January 2008
### Survey Basin Code:  
Name of Stream: **West River**  
Reach Code: **LW2**  
Designated Stream Type:  
Site ID:  

#### Date: 8/19/2015  
Assessed By: **Frank, Frank**  
**Dileo, Gary Zrelak**

<table>
<thead>
<tr>
<th>Location / Extent of Modified Channel:</th>
<th>Mark and label the location of the modified channel on the <strong>map</strong> and provide a brief description of the location of the channel section relative to roads or other landmarks.</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Most of left hand side bank of this reach - banks had been raised by fill, etc (old) and modified by a variety of forms of rip rap.</em></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mark where channel modification occurs:</th>
</tr>
</thead>
</table>
| □ Meander Bend  
□ Straight Section  
□ Steep Slope/Valley Wall  
□ Other |

<table>
<thead>
<tr>
<th>Estimate length of channel modification:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4,500 ft.</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Estimate height of bank modification:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6 ft. - 12 ft. (variable)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of Manipulation:</th>
</tr>
</thead>
</table>
| □ Channelization  
□ Bank Armoring  
□ Concrete Channel  
□ Other |

<table>
<thead>
<tr>
<th>Extent of Manipulation:</th>
</tr>
</thead>
</table>
| □ Right Bank  
□ Left Bank  
□ Channel Bottom |

<table>
<thead>
<tr>
<th>Channel / Bank Materials:</th>
</tr>
</thead>
</table>
| □ Natural  
□ Rip Rap  
□ Concrete  
□ Gabions  
□ Metal |

#### Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.  
| Rural Residential  
□ Urban Residential  
□ Commercial  
□ Forested  
□ Suburban Residential  
□ Industrial  
□ Agricultural  
□ Recreational |

<table>
<thead>
<tr>
<th>Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.</th>
</tr>
</thead>
</table>
| □ < 15 ft.  
□ 15 - 35 ft.  
□ 35 - 50 ft.  
□ 50 - 100 ft  
□ > 100 ft |

<table>
<thead>
<tr>
<th>Is there a change in the average width of the active channel?</th>
</tr>
</thead>
</table>
| □ Yes / Estimate Width: **15 ft.**  
□ No |

<table>
<thead>
<tr>
<th>Is there evidence of sediment deposition in the channel?</th>
</tr>
</thead>
</table>
| □ Yes  
□ No |

<table>
<thead>
<tr>
<th>Is the channel connected to a floodplain?</th>
</tr>
</thead>
</table>
| □ Yes  
□ No |

#### Notes: Use the space provided to record important observations otherwise not captures on this sheet.  

> 1. Although there is little space for riparian vegetation above the rip rap slopes due to use of land for parking etc, there was "most through not all places," invasive and other riparian vegetation growing on top of rip rap.
CT - NRCS
Stream Assessment Worksheet

Survey Basin Code: | Date: 8/19/2015
Name of Stream: West River | Assessed By: Frank Cochran, Frank DiLeo, Gary Zrelak
Reach Code: LW2 | 
Designated Stream Type: | Site ID: |

Make All Observations Facing Downstream

Location of Barrier: Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

Just down from Route 1. Tide gates

Type of Barrier: Mark the type of fish barrier.

- Dam
- Culvert
- Velocity Barrier
- Other

Dam Data: Provide all relevant data.

- Height of Dam: ft
- Length of Spillway: ft
- Shape of Spillway: □ Straight □ Crescent
- Materials: □ Stone □ Concrete □ Stone & Concrete □ Timber-Crib □ Other

Is there other infrastructure associated with the Dam? □ No □ Yes (If yes mark the type below)

- Factory
- Hydro Facility
- Mill
- Residence
- Other

Culvert Data: Provide all relevant data.

- Type of Culvert: □ Box □ Pipe □ Pipe-Arch □ Arch
- Culvert Material: □ Concrete □ Corrugated Metal □ Plastic □ Stone
- Culvert Outlet: □ Perched:...... ft □ Ramped □ Plastic □ Submerged
- Culvert Size: Diameter: ft, Height: ft, Width: ft
- # of Culverts: □ Culvert Length: ft

Velocity Barrier Data: Provide all relevant data.

- Nature of Barrier: □ Grade Control Sill □ Concrete Apron □ Channel Cross-Section □ Other
- Length of Barrier: ft, Approx. Vertical Rise: ft

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

A number of the older tide gates are deteriorating fairly fast. If they were replaced, more fish would pass.
CT – NRCS
Stream Assessment Worksheet

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/19/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>West River</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>LW 2</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- [ ] Within Stream  - [ ] Riparian Area: [ ] Left Bank  - [ ] Right Bank

<table>
<thead>
<tr>
<th>Type:</th>
<th>Residential</th>
<th>Commercial</th>
<th>Industrial</th>
<th>○ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>○ Plastic</td>
<td>● Tires</td>
<td>□ Appliances</td>
<td>□ Other</td>
</tr>
<tr>
<td></td>
<td>○ Paper</td>
<td>○ Metal</td>
<td>● Automotive</td>
<td></td>
</tr>
<tr>
<td></td>
<td>○ Yard Waste</td>
<td>○ Construction</td>
<td>○ Medical</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source:</th>
<th>○ Unknown</th>
<th>○ Flooding</th>
<th>○ Illegal Dumping</th>
<th>○ Local Outfall</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Land Ownership:</th>
<th>○ Private</th>
<th>○ Public</th>
<th>□ Unknown</th>
</tr>
</thead>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

We have elected to use one form, and not the map because while there were a great number of tires in many portions of the left side of the reach, and some on the right, they were for the most part helping to stabilize mud banks. The same was true of several other automotive “wastes” and much of the blacktop chunk rip rap. (A photo shows mussels growing on old blacktop.)

There were also at least three shopping carts, some floating material on the incoming tide, but few if any plastic bags, beer cans etc.
CT-NRCS
Stream Assessment Sheet
Reach Level Assessment

Survey Basin Code: Date(s): 8/13/15
Name of Stream: West River Assessed By: BH TA KB
Reach Code: LW-2
Designated Stream Type:

Make All Observations Facing Downstream
Was the entire reach of stream surveyed? □ Yes □ No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th></th>
<th>Step-Pool</th>
<th>Pool-Riffle</th>
<th>Run</th>
<th>Glide</th>
<th>* □ Manipulated Channel (piped, lined, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Channel Width:</td>
<td>175'</td>
<td>Glide Depth:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rifle Depth:</td>
<td>Step Height:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pool Depth:</td>
<td>Bank Height (Right Bank): 12'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run Depth:</td>
<td>Bank Height (Left Bank): 12'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Substrate Composition: Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Substrate Type</th>
<th>&lt;5%</th>
<th>5-25%</th>
<th>25-50%</th>
<th>50-75%</th>
<th>&gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Bedrock</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

□ Clear □ Stained ("iced tea") □ Turbid (muddy/silty)
*□ Green *□ Rusty-Red *□ Milky
*□ Odors *□ Other (foam, dyes, chemicals)

Aquatic Plants in Stream:

Floating: (e.g. duck weed) □ Absent □ In Spots *□ Everywhere
Attached: (e.g. water lily) □ Absent □ In Spots *□ Everywhere

Algae in Stream:

Floating: (e.g. planktonic) □ Absent □ In Spots *□ Everywhere
Attached: (e.g. filamentous) □ Absent □ In Spots *□ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

□ >75% covered □ 75-50% covered □ 50-25% covered □ <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Area of Concern Worksheets
Indicate # and type of sheet(s) completed for this reach assessment:
- Erosion
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash/Debris
- Water Conditions

Developed by CT-NRCS
January 2008
## Riparian Vegetation

- **Turf Grass**: Left Bank: Low, Right Bank: Low, Left Bank: Moderate, Right Bank: Moderate, Left Bank: High, Right Bank: High
- **Grass**: Left Bank: Low, Right Bank: Low, Left Bank: Moderate, Right Bank: Moderate, Left Bank: High, Right Bank: High
- **Shrubs**: Left Bank: Low, Right Bank: Low, Left Bank: Moderate, Right Bank: Moderate, Left Bank: High, Right Bank: High
- **Deciduous Trees**: Left Bank: Low, Right Bank: Low, Left Bank: Moderate, Right Bank: Moderate, Left Bank: High, Right Bank: High
- **Coniferous Trees**: Left Bank: Low, Right Bank: Low, Left Bank: Moderate, Right Bank: Moderate, Left Bank: High, Right Bank: High

## Surrounding Land Use

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>Agricultural</td>
<td>Rural Residential</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>Forested</td>
<td>Suburban Residential</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>Recreational</td>
<td>Urban Residential</td>
</tr>
<tr>
<td>Industrial</td>
<td>Other</td>
<td>Industrial</td>
</tr>
<tr>
<td>Commercial</td>
<td>Commercial</td>
<td>Commercial</td>
</tr>
</tbody>
</table>

## Areas of Concern Checklist

1. Is there evidence of either stream bank erosion or streambed instability within the reach? [ ] Yes [ ] No
2. Are there any dams or any other possible natural or artificial barriers to fish migration? [ ] Yes [ ] No
3. Are there any storm water outfalls, discharge pipes or discharges within the reach? [ ] Yes [ ] No
   - If yes, indicate the number observed:
4. Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? [ ] Yes [ ] No
5. Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? [ ] Yes [ ] No
6. Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? [ ] Yes [ ] No
7. Is there any portion of the reach that has a change in water conditions? [ ] Yes [ ] No

## Notes

Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code: 
Name of Stream: WEST RIVER  
Assessed By:  
Reach Code: LW3  
Designated Stream Type: 
Site ID: 

Date: 8/13/15

Make All Observations Facing Downstream

Location of Outfall:  None  Levee
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

IN LINE W/ LEGION AVE

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>Pipe</th>
<th>Leak Off</th>
<th>Channel</th>
<th>Cleanout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>None</td>
<td>None</td>
<td>Trickle</td>
<td>Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Deposits/Stains:</td>
<td>None</td>
<td>None</td>
<td>Sediment Delta</td>
<td>Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>None</td>
<td>None</td>
<td>Brown</td>
<td>Green</td>
</tr>
</tbody>
</table>

Pipe Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>Concrete</th>
<th>Corrugated Metal</th>
<th>Plastic</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>Road</td>
<td>Parking Lot</td>
<td>Other</td>
<td>Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>Perched</td>
<td>Ramped</td>
<td>At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter:</td>
<td>ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>1</td>
<td>2</td>
<td>3+</td>
<td></td>
</tr>
</tbody>
</table>

Leak-Off Data: Provide all relevant data.

| Leak-Off Swale: | Concrete | Asphalt | Stone | Earthen |
| Contributing Source(s): | Road | Parking Lot | Recreational Field | Other |
| Length of Swale: | ft |
| Width of Swale: | ft |

Channel Data: Provide all relevant data.

| Channel Material: | Concrete | Asphalt | Stone | Earthen |
| Contributing Source(s): | Road | Parking Lot | Recreational Field | Other |
| Channel Length: | ft |
| Channel Width: | ft |

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

CULVERT RECOMMEND 30' X 4' WIDE, 18' TALL
AT RIVER LEVEL

Developed By CT-NRCS
January 2008
## CT - NRCS
Stream Assessment Worksheet

### Degraded Buffer

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/13/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>West River</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>LN - 3</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

#### Make All Observations Facing Downstream

**Location / Extent of Degraded Buffer:** 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Narrow Buffer along Park at North End

Mark where the degraded buffer occurs.

- [x] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other
- [x] Left Bank
- [ ] Right Bank

Estimate length of degraded buffer: 506 ft.

#### Type of Degradation:

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Right Bank:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimal Vegetation</td>
<td>Minimal Vegetation</td>
</tr>
<tr>
<td>Minimal Width</td>
<td>Minimal Width</td>
</tr>
<tr>
<td>Invasive Plants</td>
<td>Invasive Plants</td>
</tr>
<tr>
<td>Other</td>
<td>Other</td>
</tr>
</tbody>
</table>

#### Dominate Land Cover

<table>
<thead>
<tr>
<th>Land Cover</th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[x]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Right Bank</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

#### Immediately Adjacent Land Use:

Mark the land use(s) immediately adjacent to the modified section.

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Right Bank:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>Rural Residential</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>Suburban Residential</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>Urban Residential</td>
</tr>
<tr>
<td>Commercial</td>
<td>Commercial</td>
</tr>
<tr>
<td>Agricultural</td>
<td>Agricultural</td>
</tr>
<tr>
<td>Forested</td>
<td>Forested</td>
</tr>
<tr>
<td>Recreational</td>
<td>Recreational</td>
</tr>
</tbody>
</table>

#### Existing Width of Riparian Vegetation:

Mark the average width of riparian vegetation to the modified section.

<table>
<thead>
<tr>
<th>Left Bank:</th>
<th>Right Bank:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 15 ft.</td>
<td>&lt; 15 ft.</td>
</tr>
<tr>
<td>15 - 35 ft.</td>
<td>15 - 35 ft.</td>
</tr>
<tr>
<td>35 - 50 ft.</td>
<td>35 - 50 ft.</td>
</tr>
<tr>
<td>50 - 100 ft</td>
<td>50 - 100 ft</td>
</tr>
<tr>
<td>&gt; 100 ft</td>
<td>&gt; 100 ft</td>
</tr>
</tbody>
</table>

#### Notes:

Use the space provided to record important observations otherwise not captured on this sheet.

---

Developed By: CT-NRCS
January 2008
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream:  West River
Reach Code:  L W 5
Designated Stream Type:  
Site ID:  

Date:  8/13/15  
Assessed By:  BH KB TA

Make All Observations Facing Downstream

Location / Extent of Modified Channel: Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

Entire channel is man made + dredged

Mark where channel modification occurs:
- Meander Bend  
- Straight Section
- Steep Slope/Valley Wall
- Other

Estimate length of channel modification:  0.8 miles

Estimate height of bank modification:  

Type of Manipulation:  
- Channelization
- Bank Armoring
- Concrete Channel
- Other

Extent of Manipulation:  
- Right Bank
- Left Bank
- Channel Bottom

Channel / Bank Materials:  
- Natural
- Rip Rap
- Concrete
- Gabions
- Metal

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

- Rural Residential
- Urban Residential
- Commercial
- Forested
- Suburban Residential
- Industrial
- Agricultural
- Recreational

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.

- < 15 ft.
- 15 – 35 ft.
- 35 – 50 ft.
- 50 – 100 ft
- > 100 ft

Is there a change in the average width of the active channel?  
- Yes / Estimate Width:  ft
- No

Is there evidence of sediment deposition in the channel?  
- Yes
- No

Is the channel connected to a floodplain?  
- Yes
- No

Notes: Use the space provided to record important observations otherwise not captured on this sheet.
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code: Date(s): 8/13/15
Name of Stream: WEST CIVITA Assessed By: RH KB TA
Reach Code: LW-4
Designated Stream Type:

Make All Observations Facing Downstream

Was the entire reach of stream surveyed? ☑ Yes ☐ No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

☐ Step-Pool ☐ Pool-Riffle ☒ Run ☐ Glide ☐ Manipulated Channel (piped, lined, etc.)
Active Channel Width: 60' Glide Depth:
Riffle Depth: Step Height:
Pool Depth: Bank Height (Right Bank): 12"
Run Depth: 3' Bank Height (Left Bank): 12"

Substrate Composition: Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Substrate Type</th>
<th>&lt;5%</th>
<th>5-25%</th>
<th>25-50%</th>
<th>50-75%</th>
<th>75-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Sand</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Bedrock</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

☑ Clear ☐ Stained ("iced tea") ☐ Turbid (muddy / silty)
* ☐ Green ☐ Rusty-Red ☐ Milky
* ☐ Odors ☐ Other (foam, dyes, chemicals)

Aquatic Plants in Stream:
Floating: (e.g. duck weed) ☑ Absent ☐ In Spots * ☐ Everywhere
Attached: (e.g. water lily) ☐ Absent ☒ In Spots * ☐ Everywhere

Algae in Stream:
Floating: (e.g. planktonic) ☑ Absent ☐ In Spots * ☐ Everywhere
Attached: (e.g. filamentous) ☑ Absent ☐ In Spots * ☐ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

☐ >75% covered | ☐ 75-50% covered | ☐ 50-25% covered | ☐ <25% covered

Area of Concern Worksheets
Indicate # and type of sheets completed for this reach assessment.
Proton
Irish Barrier
Storm Water Outfall
Modified Channel
Impact Buffer
Trash / Debris
Water Conditions

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Developed By CT-NRCS
January 2008
CT-NRCS
Stream Assessment Sheet

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Grass</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
</tbody>
</table>

Surrounding Land Use: Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Rural Residential</td>
<td>☐ Agricultural</td>
<td>☐ Rural Residential</td>
</tr>
<tr>
<td>☐ Suburban Residential</td>
<td>☐ Forested</td>
<td>☐ Suburban Residential</td>
</tr>
<tr>
<td>☐ Urban Residential</td>
<td>☐ Recreational</td>
<td>☐ Urban Residential</td>
</tr>
<tr>
<td>☐ Industrial</td>
<td>☐ Other</td>
<td>☐ Industrial</td>
</tr>
<tr>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
</tr>
</tbody>
</table>

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? ☐ Yes ☐ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? ☐ Yes ☐ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 7 ☐ Yes ☐ No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? ☐ Yes ☐ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? ☐ Yes ☐ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? ☐ Yes ☐ No
- Is there any portion of the reach that has a change in water conditions? ☐ Yes ☐ No

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Developed By CT-NRCS
January 2008
## CT – NRCS
### Stream Assessment Worksheet
#### Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8-13-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: RH TA KB</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:** 
- Right Bank
- Left Bank
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>□ Pipe</th>
<th>□ Leak Off</th>
<th>□ Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>□ None</td>
<td>□ Trickle</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>□ None</td>
<td>□ Sewage</td>
<td>□ Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>□ None</td>
<td>□ Sediment Delta</td>
<td>□ Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>□ None</td>
<td>□ Brown</td>
<td>□ Green</td>
</tr>
</tbody>
</table>

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>□ Concrete</th>
<th>□ Corrugated Metal</th>
<th>□ Plastic</th>
<th>□ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe Outlet:</td>
<td>□ Perched…</td>
<td>□ At Stream Level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 0.5 - 8 ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>□ 1</td>
<td>□ 2</td>
<td>□ 3 + 6</td>
<td></td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source (s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Other</td>
<td></td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source (s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Recreational Field</td>
<td>□ Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

- 15" Concre > at River Level
- 4' Concre > at River Level
- 8' Culvert Pipe, 4' Perch
- 12’ Concre > at Water Level

Developed By: CT-NRCS
January 2008
For Aug 14, 2015

LW-5 Lower West River
(partial) Rte 34 Bridge
& Chapel St. Bridge

9:30 am; 11:15 out

Tide coming in

1.2" Rain after light drizzle

Observations:

Stephanie Fitzgerald
Angel Heraldo

"o" = outfalls
5 observed
## CT-NRCS
### Stream Assessment Sheet

**Survey Basin Code:**

**Name of Stream:** West River

**Reach Code:** LWS

**Designated Stream Type:**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s): Aug 14 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>West River</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>LWS</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
</tbody>
</table>

### Reach Level Assessment

**Make All Observations Facing Downstream**

Was the entire reach of stream surveyed?  [ ] Yes  [x] No, Which section(s) were not surveyed? Why?

Rte. 34 Bridge to Chapel St Bridge

May survey remained from bank

### Channel Morphology

Mark the predominate condition(s), and indicate the average measurements.

- [ ] Step-Pool
- [ ] Pool-Riffle
- [ ] Run
- [ ] Glide
- [ ] Manipulated Channel (piped, lined, etc.)

<table>
<thead>
<tr>
<th>Active Channel Width:</th>
<th>Glide Depth:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5'</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Step-Pool Depth:</th>
<th>Pool Depth:</th>
<th>Run Depth:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bank Height (Right Bank):</td>
<td>Bank Height (Left Bank):</td>
</tr>
</tbody>
</table>

### Substrate Composition

Mark approximate percentages for each substrate type observed.

- [ ] Silt or Clay: 0%<5%
- [ ] Sand: 0%<5%
- [ ] Gravel (0.1-2 inches): 0%<5%
- [ ] Cobble (2-10 inches): 0%<5%
- [ ] Boulder (>10 inches): 0%<5%
- [ ] Bedrock: 0%<5%

### Water Conditions

- [ ] Clear
- [ ] Stained ("iced tea")
- [ ] Turbid (muddy / silty)
- [ ] Green
- [ ] Rusty-Red
- [ ] Milky
- [ ] Odors
- [ ] Other (foam, dyes, chemicals)

### Aquatic Plants in Stream

- [ ] Floating (e.g. duck weed): Absent
- [ ] Attached (e.g. water lily): Absent

### Algae in Stream

- [ ] Floating (e.g. planktonic): Absent
- [ ] Attached (e.g. filamentous): Absent

### Canopy Cover

Mark approximate percentage of stream covered by tree canopy.

- [ ] >75% covered
- [ ] 75%-50% covered
- [ ] 50%-25% covered
- [ ] <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

---

**Area of Concern Worksheets**

Indicate # and type of sheets completed for this reach assessment:

- Erosion
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash / Debris
- Water Conditions

---

**Developed By:** CT-NRCS  
**January 2008**
### RIPARIAN VEGETATION
Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th>Riparian Vegetation</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>○ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>○ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>○ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>○ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>○ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

### SURROUNDING LAND USE
Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>□ Recreational</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Industrial</td>
<td>□ Other</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Commercial</td>
<td>□ Commercial</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

### AREAS OF CONCERN CHECKLIST
Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: □ Yes □ No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? □ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? □ Yes □ No
- Is there any portion of the reach that has a change in water conditions? □ Yes □ No

### NOTES
Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

most notable concern - lots of solid brown particles floating in water everywhere we walked
Could see flow of water going north
(tidal action)
Average width of channel 35'
Average depth of water 2.5 - 3.5'
with shallower sandbars
sometimes in middle up to 5' ft
sometimes near one bank
always near outflow
Along left side is large park
most plants; phragmites & some
knob weed
Along right bank - clay bank, Yahay
knob weed, some large trees - oaks &
some trees dead - from return
of brackish water 4 yrs ago
Some birds observed - osprey,
hawk, sea gulls, Canada geese,
ducks, king fisher (?), & other small
birds
Tree cover: Varies from almost none
75% - average 50% - 25%
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream: West River  
Reach Code:  
Designated Stream Type:  
Site ID:  

Date: 8/14/13  
Assessed By: Stephanie Fitzgerald  
Angela Hershelet

Location of Outfall: Right Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks. Under Rte 34 Bridge

Outfall Type:  
Flow:  
Odor:  
Deposit/Stains:  
Benthic Growth:  

Pipe Data: Provide all relevant data.

Pipe Material:  
Contribution Source(s):  
Pipe Outlet:  
Pipe Size: Diameter: 2 - 5 ft.

Leak-Off Data: Provide all relevant data.

Leak-Off Swale:  
Contributing Source(s):  
Length of Swale: ft.

Channel Data: Provide all relevant data.

Channel Material:  
Contributing Source(s):  
Channel Length: ft.

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Nothing coming out of pipes.
River water smelled of sewage.
Water deeper near pipe.
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream: **West River**  
Reach Code: **WS**  
Designated Stream Type:  
Site ID:  
Date: **8/19/15**  
Assessed By: **Stephanie Fitzgerald**  
Angel Hernandez

**Make All Observations Facing Downstream**

Location of Outfall: [ ] Right Bank  [ ] Left Bank  Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

**under Rte. 34 Bridge**

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>□ Pipe</th>
<th>□ Leak Off</th>
<th>□ Channel</th>
<th>□ Substantial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>□ None</td>
<td>□ Trickle</td>
<td>□ Moderate</td>
<td>□ Substantial</td>
</tr>
<tr>
<td>Odor:</td>
<td>□ None</td>
<td>□ Sewage</td>
<td>□ Rancid / Sour</td>
<td>□ Sulfur (rotten eggs)</td>
</tr>
<tr>
<td>Deposits / Stains</td>
<td>□ None</td>
<td>□ Sediment Delta</td>
<td>□ Oily Stain</td>
<td>□ Black</td>
</tr>
<tr>
<td>Benthic Growth</td>
<td>□ None</td>
<td>□ Brown</td>
<td>□ Green</td>
<td>□ Orange</td>
</tr>
</tbody>
</table>

**Pipe Data: Provide all relevant data.**

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>□ Concrete</th>
<th>□ Cerrugated Metal</th>
<th>□ Plastic</th>
<th>□ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Other</td>
<td>□ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>□ Perched... ft.</td>
<td>□ Ramped</td>
<td>□ At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 2 5 ft.</td>
<td># of Pipes:</td>
<td>□ 1</td>
<td>□ 2</td>
</tr>
</tbody>
</table>

**Leak-Off Data: Provide all relevant data.**

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Recreational Field</td>
<td>□ Other</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Channel Data: Provide all relevant data.**

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Recreational Field</td>
<td>□ Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes: Use the space provided to record important observations otherwise not captures on this sheet.**

Nothing coming out of pipe. River water smelled of sewage. Stream depth greater near pipe outfall.
**CT – NRCS**

**Stream Assessment Worksheet**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>Assessed By:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Name of Stream:** West Branch  
**Reach Code:** LR  
**Designated Stream Type:**  
**Site ID:**

**Make All Observations Facing Downstream**

**Location of Outfall:** Yes Right Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

2/3 of way up to Chapel St. Bridge from Rte. 34 at Tennis Center Park

**Outfall Type:** Yes Pipe  
**Flow:** Yes  
**Odor:** No Trickle  
**Deposits / Stains:** No Sediment Delta  
**Benthic Growth:** No Brown

**Flow:** No  
**Odor:** No  
**Deposits / Stains:** No  
**Benthic Growth:** No

**Pipe Data: Provide all relevant data.**

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>Concrete</th>
<th>Corrugated Metal</th>
<th>Plastic</th>
<th>Other</th>
</tr>
</thead>
</table>

**Contributing Source(s):** Road Parking Lot  
**Pipe Outlet:** Perched  
**Pipe Size:** Diameter 2 ft.

**Pipe Size:**  
**# of Pipes:** 1  
**2**  
**3 +**

**Leak-Off Data: Provide all relevant data.**

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>Concrete</th>
<th>Asphalt</th>
<th>Stone</th>
<th>Earthen</th>
</tr>
</thead>
</table>

**Contributing Source(s):** Road Parking Lot  
**Length of Swale:** ft.

**Width of Swale:** ft.

**Channel Data: Provide all relevant data.**

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>Concrete</th>
<th>Asphalt</th>
<th>Stone</th>
<th>Earthen</th>
</tr>
</thead>
</table>

**Contributing Source(s):** Road Parking Lot  
**Channel Length:** ft.

**Channel Width:** ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

*didn't notice water movement nearby, no outflow?*
**CT - NRCS**  
Stream Assessment Worksheet

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>8/14/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>River</td>
<td></td>
</tr>
<tr>
<td>Reach Code:</td>
<td>LW 5</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td>Angel Heredia</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

Location of Outfall: □ Right Bank  □ Left Bank  Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

_Under Chapel St. Bridge_

| Outfall Type: | □ Pipe | □ Leak Off | □ Channel |
| Flow: | □ None | □ Trickle | □ Moderate |
| Odor: | □ None | □ Sewage | □ Rancid / Sour |
| Deposits / Stains: | □ None | □ Sediment Delta | □ Oily Stain |
| Benthic Growth: | □ None | □ Brown | □ Green |

Pipe Data: Provide all relevant data.

| Pipe Material: | □ Concrete | □ Corrugated Metal | □ Plastic | □ Other |
| Contributing Source(s): | □ Road | □ Parking Lot | □ Other | □ Unknown |
| Pipe Outlet: | □ Perched..... ft. | □ Rampad | □ At Stream Level |
| Pipe Size: | □iameter: 2 1/8 ft. |
| # of Pipes: | □ 1 | □ 2 | □ 3+ |

Leak-Off Data: Provide all relevant data.

| Leak-Off Swale: | □ Concrete | □ Asphalt | □ Stone | □ Earthen |
| Contributing Source (s): | □ Road | □ Parking Lot | □ Recreational Field | □ Other |
| Length of Swale: | ft. |
| Width of Swale: | ft. |

Channel Data: Provide all relevant data.

| Channel Material: | □ Concrete | □ Asphalt | □ Stone | □ Earthen |
| Contributing Source (s): | □ Road | □ Parking Lot | □ Recreational Field | □ Other | □ Unknown |
| Channel Length: | ft. |
| Channel Width: | ft. |

Notes: Use the space provided to record important observations otherwise not captures on this sheet.
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code: [ ]
Name of Stream: [ ]
Reach Code: [ ]
Designated Stream Type: [ ]
Site ID: [ ]

Date: [ ]
Assessed By: [ ]

Make All Observations Facing **Downstream**

**Location of Outfall:**
- [ ] Right Bank
- [ ] Left Bank

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

```
under channel St. Bridge
(south)
```

**Outfall Type:**
- [ ] Pipe
- [ ] Leak Off
- [ ] Channel

**Flow:**
- [ ] None
- [ ] Trickle
- [ ] Moderate
- [ ] Rancid / Sour
- [ ] Substantial
- [ ] Sulfur (rotten eggs)

**Odor:**
- [ ] None
- [ ] Sewage
- [ ] Oily Stain
- [ ] Black

**Deposits / Stains:**
- [ ] None
- [ ] Sediment Delta
- [ ] Brown
- [ ] Green
- [ ] Orange

**Benthic Growth:**
- [ ] None

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>[ ] Concrete</th>
<th>[ ] Corrugated Metal</th>
<th>[ ] Plastic</th>
<th>[ ] Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>[ ] Road</td>
<td>[ ] Parking Lot</td>
<td>[ ] Other</td>
<td>[ ] Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>[ ] Perched</td>
<td>[ ] Ramped</td>
<td>[ ] At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter:  [ ] $\frac{2}{5}$ ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>[ ] 1</td>
<td>[ ] 2</td>
<td>[ ] 3 +</td>
<td></td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>[ ] Concrete</th>
<th>[ ] Asphalt</th>
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<tr>
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<td>[ ] Parking Lot</td>
<td>[ ] Recreational Field</td>
<td>[ ] Other</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>[ ] ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>[ ] ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Channel Data:** Provide all relevant data.

<table>
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<tr>
<th>Channel Material:</th>
<th>[ ] Concrete</th>
<th>[ ] Asphalt</th>
<th>[ ] Stone</th>
<th>[ ] Earthen</th>
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</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>[ ] Road</td>
<td>[ ] Parking Lot</td>
<td>[ ] Recreational Field</td>
<td>[ ] Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>[ ] ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>[ ] ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
CT - NRCS
Stream Assessment Worksheet

Survey Basin Code: | Date: 8/19/15
Name of Stream: West River | Assessed By: Stephanie Fitzgerald
Reach Code: LW5 | Angel Harschaf
Designated Stream Type: | Site ID:

Make All Observations Facing Downstream

Location of Outfall: X Right Bank  □ Left Bank  Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.
under chapel st. bridge
(north) appeared clear

Outfall Type:  □ Pipe  □ Leak Off  □ Channel
Flow:  □ None  □ Trickle  □ Moderate  □ Substantial
Odor:  □ None  □ Sewage  □ Rancid / Sour  □ Sulfur (rotten eggs)
Deposits / Stains:  □ None  □ Sediment Delta  □ Oily Stain  □ Black
Benthic Growth:  □ None  □ Brown  □ Green  □ Orange

Pipe Data: Provide all relevant data.

Pipe Material:  □ Concrete  □ Corrugated Metal  □ Plastic  □ Other
Contributing Source(s):  □ Road  □ Parking Lot  □ Other  □ Unknown
Pipe Outlet:  □ Perched...... ft.  □ Ramped  □ At Stream Level
Pipe Size:  Diameter: 2 1/2 ft.
# of Pipes:  □ 1  □ 2  □ 3 +

Leak-Off Data: Provide all relevant data.

Leak-Off Swale:  □ Concrete  □ Asphalt  □ Stone  □ Earthen
Contributing Source(s):  □ Road  □ Parking Lot  □ Recreational Field  □ Other
Length of Swale: ft.
Width of Swale: ft.

Channel Data: Provide all relevant data.

Channel Material:  □ Concrete  □ Asphalt  □ Stone  □ Earthen
Contributing Source(s):  □ Road  □ Parking Lot  □ Recreational Field  □ Other  □ Unknown
Channel Length: ft.
Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.
**CT - NRCS**

**Stream Assessment Worksheet**

**Trash / Debris**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>8/14/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream: W River</td>
<td>Assessed By:</td>
<td>Stephanie Fitzgerald</td>
</tr>
<tr>
<td>Reach Code: LW 5</td>
<td></td>
<td>Angel Hensel</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- Overall, very little trash or debris in river.
- Saw 1 medium sized TV, some plastic water bottles, some potato chips.

<table>
<thead>
<tr>
<th>Type:</th>
<th>Residential</th>
<th>Commercial</th>
<th>Industrial</th>
<th>Public Land</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>Plastic</td>
<td>Tires</td>
<td>Appliances</td>
<td>Other (TV)</td>
</tr>
<tr>
<td></td>
<td>Paper</td>
<td>Metal</td>
<td>Automotive</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yard Waste</td>
<td>Construction</td>
<td>Medical</td>
<td></td>
</tr>
<tr>
<td>Source:</td>
<td>Unknown</td>
<td>Flooding</td>
<td>Illegal Dumping</td>
<td>Local Outfall</td>
</tr>
<tr>
<td>Land Ownership:</td>
<td>Private</td>
<td>Public</td>
<td>Unknown</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Along shore - more litter especially under chapel. 8+ bridge on the left bank.
# CT - NRCS

**Stream Assessment Worksheet**

**Visual Water Conditions / Excessive Plant or Algae Growth**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/14/13</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of Stream:</th>
<th>Date Assessed By:</th>
</tr>
</thead>
<tbody>
<tr>
<td>West River</td>
<td>Stephanie FitzGerald</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reach Code:</th>
<th>Designated Stream Type:</th>
<th>Site ID:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LW S</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:**
1. Mark and label the location on the map.
2. Briefly describe the location of the site relative to roads or other landmarks.

- Floating brown substance everywhere
- Some floating tine stubs about 1/2" diameter, a little oil?
- Some floating green algae

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- Rural Residential
- Urban Residential
- Commercial
- Forested
- Suburban Residential
- Industrial
- Agricultural
- Recreational

**Describe Water Conditions:** Mark all that apply.
- Clear
- Stained ("iced tea")
- Turbid (muddy / silty)
- Odors
- Green
- Rusty-Red
- Milky
- Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.
- >75% covered
- 75-50% covered
- 50-25% covered
- <25% covered

**Aquatic Plants in Stream:**
- Floating: (e.g. duck weed)
  - Absent
  - In Spots
  - Everywhere
- Attached: (e.g. water lily)
  - Absent
  - In Spots
  - Everywhere

**Algae in Stream:**
- Floating: (e.g. planktonic)
  - Absent
  - In Spots
  - Everywhere
- Attached: (e.g. filamentous)
  - Absent
  - In Spots
  - Everywhere

**Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?**
- Yes
- No

**Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?**
- Yes
- No

**Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?**
- Yes
- No

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
- Saw lots of minnows, barnacles attached to submerged branches
- Some submerged tree trunks + branches

---

Developed By: CT-NRCS
January 2008
CT-NRCS  
Stream Assessment Sheet  

Survey Basin Code:  
Name of Stream: West River  
Reach Code: LW5  
Designated Stream Type:  

Date(s): 8/22/2015  
Assessed By:  

Make All Observations Facing Downstream  
Was the entire reach of stream surveyed? ☑ Yes ☐ No, Which section(s) were not surveyed? Why?  

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.  

- Step-Pool ☑  
- Pool-Riffle ☒  
- Run ☐  
- Glide ☒  
- Manipulated Channel (piped, lined, etc.) ☐  

- Active Channel Width: 37'  
- Riffle Depth: 4  
- Pool Depth: 18"  
- Run Depth:  
- Glide Depth: 42"  
- Step Height:  
- Bank Height (Right Bank): 2.5'  
- Bank Height (Left Bank): 2.5'  

Substrate Composition: Mark approximate percentages for each substrate type observed.  

- Silt or Clay ☐ <5%  ☐ 5-25%  ☑ 25-50%  ☐ 50-75%  ☐ >75%  
- Sand ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☑ 50-75%  ☐ >75%  
- Gravel (0.1-2 inches) ☑ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☐ >75%  
- Cobble (2-10 inches) ☑ <5%  ☐ 5-25%  ☑ 25-50%  ☐ 50-75%  ☐ >75%  
- Boulder (>10 inches) ☑ <5%  ☑ 5-25%  ☐ 25-50%  ☑ 50-75%  ☐ >75%  
- Bedrock ☐ <5%  ☐ 5-25%  ☐ 25-50%  ☐ 50-75%  ☑ >75%  

Describe Water Conditions: Mark all that apply.  

- Clear ☐  
- Stained ("iced tea") ☐  
- Rusty-Red ☑  
- Turbid (muddy/silty) ☐  
- Milky ☑  
- Other (foam, dyes, chemicals) ☐  

Aquatic Plants in Stream:  

- Floating: (e.g. duck weed) ☑ Absent ☐ In Spots ☑ Everywhere  
- Submerged: (e.g. water lily) ☑ Absent ☐ In Spots ☑ Everywhere  

Gas Exchange: (e.g. filamentous) ☑ Absent ☐ In Spots ☑ Everywhere  

Stream Cover: Mark approximate percentage of stream covered by tree canopy.  

- ☑ 75-50% covered  
- ☐ 50-25% covered  
- ☑ <25% covered  

Area of Concern Worksheets  
Indicate * and type of sheet completed for this reach assessment:  

- Brooking  
- Fish Barrier  
- Storm Water Outfall  
- Modified Channel  
- Impacted Buffer  
- Trash Debris  

Water Conditions  

Developed By CT-NRCS  

January 2008
## Riparian Vegetation:
Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

## Surrounding Land Use:
Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th></th>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural/Residential</td>
<td>Suburban Residential</td>
<td>Suburban Residential</td>
<td>Suburban Residential</td>
</tr>
<tr>
<td>Agricultural</td>
<td>Forested</td>
<td>Forested</td>
<td>Forested</td>
</tr>
<tr>
<td>Rural Residential</td>
<td>Suburban Residential</td>
<td>Suburban Residential</td>
<td>Suburban Residential</td>
</tr>
<tr>
<td>Agricultural</td>
<td>Recreational</td>
<td>Urban Residential</td>
<td>Recreational</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>Other</td>
<td>Commercial</td>
<td>Commercial</td>
</tr>
<tr>
<td>Recreational</td>
<td>Other</td>
<td>Commercial</td>
<td>Commercial</td>
</tr>
<tr>
<td>Other</td>
<td>Commercial</td>
<td>Commercial</td>
<td>Commercial</td>
</tr>
</tbody>
</table>

## Areas of Concern Checklist:
Marking **Yes** to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- **Is there evidence of either stream bank erosion or streambed instability within the reach?** □ Yes □ No
- **Are there any dams or any other possible natural or artificial barriers to fish migration?** **Yes** □ No
- **Are there any storm water outfalls, discharge pipes or discharges within the reach?** Indicate the number observed: **Not Counting Any Outfalls**!
- **Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?** □ Yes □ No
- **Is there any portion of the reach where the riparian buffer has been compromised or nonexistent?** □ Yes □ No
- **Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?** □ Yes □ No
- **Is there any portion of the reach that has a change in water conditions?** □ Yes □ No

## Notes:
Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

- **WATER WAS FOUL SMELLING THROUGH MUCH OF THE REACH - BUT ESPECIALLY CLOSER TO WHITELAY AVE - ADJACENT TO STORMWATER OUTFALLS (RT BANK) AND DOWNSTREAM OF THE CSD OUTFALL BELOW THE BRIDGE ABUTMENT.**

- **MANY OF THE OUTFALLS THAT WE IDENTIFIED ARE LIKELY SUBMERGED DURING HIGH TIDE - SEVERAL OF THEM WERE DISCHARGING WASTE - BUT IT WAS UNCLEAR AS TO WHETHER OR NOT THIS WAS TIDE H2O - GROUNDWATER OR OTHER DISCHARGE.**
EDGEOOWOOD PARK

Edgewood Park, one of New Haven’s treasures, was designed more than 100 years ago by the famous Olmsted team that designed NYC’s Central Park. Today the park offers countless ways for people of all ages to enjoy nature and the outdoors — walking, jogging, bird watching, cross country skiing, tennis, basketball, soccer, relaxing by the Duck Pond and the West River, skateboarding, bocce, picnicking, dog walking, cooling off under the sundial sprinkler, playing in the playground, shopping at the Sunday Farmer’s Market, working out on the fitness structures, biking, and now participating in events at the newly reopened Coogan Pavilion.

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  • Sponsor events and programs
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  • On-going collaborations
    Bike riding team and support for Rock to Rock Planning and supervision for summer Youth at Work team Planting and stewarding trees and gardens with Urban Resources Initiative

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  Visit us on Facebook
  Support park activities and events
  Join a walking, running or bicycling group
  Volunteer with the plant and trail maintenance team
  Help with school and community service group projects
  Join our board or a committee
  Donate money

• CONTACT US
  friendsofedgeowoodpark@gmail.com
  or call 203 500-7777
CT – NRCS
Stream Assessment Worksheet

Trash / Debris

Survey Basin Code: 

Date: 8/23/2015

Name of Stream: WEST RIVER

Assessed By: KENNAULT

Reach Code: LWS - From Decew

Designated Stream Type:

Site ID:

Make All Observations Facing Downstream

Location / Extent of Trash or Debris: Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- TIRES THROUGHOUT CHANNEL — NOT PILED, BUT FOUND ABOUT ONE TIRE EVERY 20 YARDS OR SO.

- Within Stream  □ Riparian Area:  □ Left Bank  □ Right Bank

Type: □ Residential  □ Commercial  □ Industrial

Material: □ Plastic  □ Paper  □ Yard Waste  □ Tires  □ Metal  □ Construction  □ Appliances  □ Automotive  □ Medical  □ Other

Source: □ Unknown  □ Flooding  □ Illegal Dumping  □ Local Outfall

Land Ownership: □ Private  □ Public  □ Unknown

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

TIRES LIKELY THE RESULT OF ILLEGAL DUMPING — BUT LOCATION OF DUMPING NOT SPECIFICALLY IDENTIFIED WITHIN THIS REACH. TIRES WERE DISTRIBUTED THROUGHOUT — MANY OF THEM WERE COVERED IN ALGAE AND HAD CLEARLY BEEN IN THE REACH FOR SOME TIME.

Developed By: CT-NRCS
January 2008
**CT – NRCS**

**Stream Assessment Worksheet**

**Trash / Debris**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/23/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>LW5 - FROM DERBY AVE. TO WHALEY</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

![Diagram](image)

- Within Stream: [ ]
- Riparian Area: [ ]
- Left Bank: [ ]
- Right Bank: [ ]

<table>
<thead>
<tr>
<th>Type:</th>
<th>Residential</th>
<th>Commercial</th>
<th>Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[ ] Plastic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[ ] Paper</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[ ] Yard Waste</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[x] Tires</td>
<td>[x] Metal</td>
<td>[ ] Appliances</td>
<td>[ ] Other</td>
</tr>
<tr>
<td>[ ] Metal</td>
<td>[x] Construction</td>
<td>[ ] Automotive</td>
<td>[ ] Medical</td>
</tr>
<tr>
<td>Source:</td>
<td>[x] Unknown</td>
<td>[ ] Flooding</td>
<td>[ ] Illegal Dumping</td>
</tr>
<tr>
<td>Land Ownership:</td>
<td>[ ] Private</td>
<td>[ ] Public</td>
<td>[ ] Unknown</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

There is a stop sign on a metal post in the middle of the West River beneath the Edgewood Ave Bridge.
CT – NRCS
Stream Assessment Worksheet
Visual Water Conditions / Excessive Plant or Algae Growth

Survey Basin Code: [ ]
Name of Stream: WEST RIVER
Reach Code: LG5
Designated Stream Type:
Site ID: [ ]

Make All Observations Facing Downstream

Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth: 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Throughout the channel from Duck Pond to Whalley Ave, attached veg. algae on bottom from foot bridge to Whalley Ave in stream.

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.
- Rural Residential
- Urban Residential
- Commercial
- Forested
- Suburban Residential
- Industrial
- Agricultural
- Recreational

Describe Water Conditions: Mark all that apply.
- Clear
- Stained ("iced tea")
- Turbid (muddy / silty)
- Odors
- Green
- Rusty-Red
- Milky
- Other (foam, dyes, chemicals)

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.
- >75% covered
- 75-50% covered
- 50%-25% covered
- <25% covered

Aquatic Plants in Stream:
Floating: (e.g. duck weed) □ Absent □ In Spots □ Everywhere
Attached: (e.g. water lily) □ Absent □ In Spots □ Everywhere

Algae in Stream:
Floating: (e.g. planktonic) □ Absent □ In Spots □ Everywhere
Attached: (e.g. filamentous) □ Absent □ In Spots □ Everywhere

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?
- Yes □ No □

Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?
- Yes □ No □

Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?
- Yes □ No □

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Lots of attached vegetation on stream bed where water depths range from 5'-18' @ low tide conditions in upper, possibly non-tidal or low-influence tidal zones.

Strong sewage-like odor present in vicinity of Whalley Ave bridge...though no actual CSO discharge was occurring...it had rained 2 days prior...so possibly stormwater discharges.

Developed By: CT-NRCS
January 2008
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  - **On-going collaborations**
    - Bike riding team and support for Rock to Rock
    - Planning and supervision for summer Youth at Work team
    - Planting and stewarding trees and gardens with Urban Resources Initiative

- **HOW YOU CAN PARTICIPATE**
  - Visit the park often
  - Read our email newsletter
  - Visit us on Facebook
  - Support park activities and events
  - Join a walking, running or bicycling group
  - Volunteer with the plant and trail maintenance team
  - Help with school and community service group projects
  - Join our board or a committee
  - Donate money

- **CONTACT US**
  - friendsofedgewoodpark@gmail.com
  - or call 203 500-7777
### CT - NRCS
### Stream Assessment Worksheet

**Storm Water Outfall**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/23/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
</tr>
<tr>
<td>Assessed By:</td>
<td></td>
</tr>
<tr>
<td>Reach Code:</td>
<td>LWS</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td>FIRST 2 PIPES FROM DOWNSTREAM</td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:**
- Right Bank [ ]
- Left Bank [ ]

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

SEE ATTACHED MAP. OUTFALLS LOCATED AT BANK B/W DERBY AVE, CAMPUS ST @ THE BASE OF THE YALE TENNIS CENTER. BELOW MHT (SEE ATTACH)

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>Pipe [X]</th>
<th>Leak Off [ ]</th>
<th>Channel [ ]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>None [ ]</td>
<td>Trickle [X]</td>
<td>Moderate [ ]</td>
</tr>
<tr>
<td>Odor:</td>
<td>None [ ]</td>
<td>Sewage [ ]</td>
<td>Rancid / Sour [ ]</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>one [ ]</td>
<td>Sediment Delta [ ]</td>
<td>Oily Stain [ ]</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>None [ ]</td>
<td>Brown [ ]</td>
<td>Green [ ]</td>
</tr>
</tbody>
</table>

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>Concrete [X]</th>
<th>Corrugated Metal [ ]</th>
<th>Plastic [ ]</th>
<th>Other [ ]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>Road [ ]</td>
<td>Parking Lot [ ]</td>
<td>Other [X]</td>
<td>Unknown [ ]</td>
</tr>
</tbody>
</table>

**Pipe Outlet:**
- Perched [X] 10 ft.
- Ramped [ ]
- At Stream Level [ ]

<table>
<thead>
<tr>
<th>Pipe Size:</th>
<th>Diameter</th>
<th># of Pipes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10&quot; [ ]</td>
<td>2 [ ]</td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>Concrete [ ]</th>
<th>Asphalt [ ]</th>
<th>Stone [ ]</th>
<th>Earthen [ ]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>Road [ ]</td>
<td>Parking Lot [ ]</td>
<td>Recreational Field [ ]</td>
<td>Other [ ]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length of Swale:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Width of Swale:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
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</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>Concrete [ ]</th>
<th>Asphalt [ ]</th>
<th>Stone [ ]</th>
<th>Earthen [ ]</th>
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</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>Road [ ]</td>
<td>Parking Lot [ ]</td>
<td>Recreational Field [ ]</td>
<td>Other [ ]</td>
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<table>
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<th>Channel Length:</th>
<th>ft.</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Channel Width:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Pipes Perched @ Low Tide - But Are Below Mean High Tide Line & Protrude From Bank. Both Pipes Are Trickling - But Unclear If Result Of Submerged Condition During Low Tide. One Of The Two Pipes Has Rust Colored Discharge Around The Base Of The Pipe - Possibly Due To Pipe Material.

Developed By: CT-NRCS

January 2008
CT - NRCS
Stream Assessment Worksheet
Storm Water Outfall

Survey Basin Code: 
Name of Stream: WEST RIVER 
Reach Code: LWS 
Designated Stream Type: Sheet 2 of 11 
Site ID: 

Make All Observations Facing Downstream

Location of Outfall: ☑ Right Bank ☐ Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks:

Outfall Type: ☑ Pipe ☐ Leak Off ☐ Channel
Flow: ☐ None ☐ Trickle ☐ Moderate ☐ Substantial
Odor: ☐ None ☐ Sewage ☐ Rancid / Sour ☐ Sulfur (rotten eggs)
Deposits / Stains: ☐ None ☐ Sediment Delta ☐ Oily Stain ☐ Black
Benthic Growth: ☐ None ☐ Brown ☐ Green ☐ Orange

Pipe Data: Provide all relevant data.
Pipe Material: ☑ Concrete ☐ Corrugated Metal ☐ Plastic ☐ Other
Contributing Source(s): ☑ Road ☐ Parking Lot ☐ Other ☑ Unknown
Pipe Outlet: ☑ Perched ...... l ft. ☐ Ramped ☐ At Stream Level
Pipe Size: Diameter: 5 1/2 ft. 
# of Pipes: ☑ 1 ☐ 2 ☐ 3 +

Leak-Off Data: Provide all relevant data.
Leak-Off Swale: ☑ Concrete ☐ Asphalt ☐ Stone ☐ Earthen
Contributing Source(s): ☐ Road ☐ Parking Lot ☐ Recreational Field ☐ Other
Length of Swale: ft.
Width of Swale: ft.

Channel Data: Provide all relevant data.
Channel Material: ☐ Concrete ☐ Asphalt ☐ Stone ☐ Earthen
Contributing Source(s): ☐ Road ☐ Parking Lot ☐ Recreational Field ☐ Other ☑ Unknown
Channel Length: ft.
Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

ONE PIPE DOWNSWEEP OF CHAPEL ST BRIDGE @ 1.5' ABOVE LOW TIDE LEVEL - LIKELY PARTIALLY SUBMERGED DURING MEAN HIGH TIDE.
2'ND PIPE BELOW BRIDGE ADJACENT THERE IS ALWAYS DRY WEATHER DISCHARGE FROM THIS PIPE LOCATED ABOUT 4-5' ABOVE LOW TIDE.

Developed By: CT-NRCS
January 2008
CT – NRCS  
Stream Assessment Worksheet  
Storm Water Outfall

Survey Basin Code:  
Name of Stream:  
Reach Code:  
Designated Stream Type:  
Site ID:  
Date: 8/23/2005  
Assessed By:  
Sheet 3 of 11

Make All Observations Facing **Downstream**

Location of Outfall:  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Outfall Type:  
Flow:  
Odor:  
Deposits / Stains:  
Benthic Growth:  

Pipe Data: Provide all relevant data.

Pipe Material:  
Contributing Source(s):  
Pipe Outlet:  
Pipe Size:  
# of Pipes:  

Leak-Off Data: Provide all relevant data.

Leak-Off Swale:  
Contributing Source (s):  
Length of Swale:  
Width of Swale:  

Channel Data: Provide all relevant data.

Channel Material:  
Contributing Source (s):  
Channel Length:  
Channel Width:  

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

**PIPE BROKEN + PIECES IN CHANNEL.**  
**PIPE 1 - 2 FEET BELOW ACTIVE CHANNEL.**  
**BANK HEIGHT / MHT LEVEL. PIPE 1/2 SUBMERGED @ LOW TIDE.**

Developed By: CT-NRCS  
January 2008
CT - NRCS
Stream Assessment Worksheet
Storm Water Outfall

Survey Basin Code: 
Name of Stream: WEST RIVER
Reach Code: W5
Designated Stream Type: 
Site ID: 
Date: 8/23/2015
Assessed By: "(Signature)
Sheet 4 of 11

Make All Observations Facing Downstream

Location of Outfall: Left Bank
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

2 SMALL OUTFALLS JUST ABOVE STREAM LEVEL BENEATH ABUTMENT FOR EGG STREET BRIDGE

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>✦ Pipe</th>
<th>✦ None</th>
<th>✦ Leak Off</th>
<th>✦ Moderate</th>
<th>✦ Channel</th>
<th>✦ Substantial</th>
<th>✦ Trickle</th>
<th>✦ Sewage</th>
<th>✦ Rancid / Sour</th>
<th>✦ Sulfur (rotten eggs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>✦ None</td>
<td>✦ None</td>
<td>✦ Trickle</td>
<td>✦ Moderate</td>
<td>✦ Channel</td>
<td>✦ Substantial</td>
<td>✦ Trickle</td>
<td>✦ Sewage</td>
<td>✦ Rancid / Sour</td>
<td>✦ Sulfur (rotten eggs)</td>
</tr>
<tr>
<td>Odor:</td>
<td>✦ None</td>
<td>✦ None</td>
<td>✦ Trickle</td>
<td>✦ Moderate</td>
<td>✦ Channel</td>
<td>✦ Substantial</td>
<td>✦ Trickle</td>
<td>✦ Sewage</td>
<td>✦ Rancid / Sour</td>
<td>✦ Sulfur (rotten eggs)</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>✦ None</td>
<td>✦ None</td>
<td>✦ Sediment Delta</td>
<td>✦ Oily Stain</td>
<td>✦ Black</td>
<td></td>
<td>✦ None</td>
<td>✦ Brown</td>
<td>✦ Green</td>
<td>✦ Orange</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>✦ None</td>
<td>✦ None</td>
<td>✦ Sediment Delta</td>
<td>✦ Oily Stain</td>
<td>✦ Black</td>
<td></td>
<td>✦ None</td>
<td>✦ Brown</td>
<td>✦ Green</td>
<td>✦ Orange</td>
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Pipe Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>✦ Concrete</th>
<th>✦ Corrugated Metal</th>
<th>✦ Plastic</th>
<th>✦ Other</th>
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</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>✦ Road</td>
<td>✦ Parking Lot</td>
<td>✦ Other</td>
<td>✦ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>✦ Perched</td>
<td>✦ Ramped</td>
<td>✦ At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size: Diameter:</td>
<td>1/2 ft.</td>
<td>1/2 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>✦ 1</td>
<td>✦ 2</td>
<td>✦ 3 +</td>
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Leak-Off Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>✦ Concrete</th>
<th>✦ Asphalt</th>
<th>✦ Stone</th>
<th>✦ Earthen</th>
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</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>✦ Road</td>
<td>✦ Parking Lot</td>
<td>✦ Other</td>
<td>✦ Unknown</td>
</tr>
<tr>
<td>Length of Swale: ft.</td>
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<td>Width of Swale: ft.</td>
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Channel Data: Provide all relevant data.

<table>
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<th>✦ Asphalt</th>
<th>✦ Stone</th>
<th>✦ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>✦ Road</td>
<td>✦ Parking Lot</td>
<td>✦ Other</td>
<td>✦ Unknown</td>
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<tr>
<td>Channel Length: ft.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width: ft.</td>
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Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Developed By: CT-NRCS
January 2008
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/5/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>LWS</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:**
- [ ] Right Bank
- [x] Left Bank

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

**Outfall Type:**
- [x] Pipe
- [ ] Leak Off
- [ ] Channel
- [ ] Substantial

**Flow:**
- [x] None
- [ ] Trickle
- [ ] Moderate

**Odor:**
- [x] None
- [ ] Sewage
- [ ] Rancid / Sour
- [ ] Sulfur (rotten eggs)

**Deposits / Stains:**
- [x] None
- [ ] Sediment Delta
- [ ] Oily Stain
- [ ] Black

**Benthic Growth:**
- [x] None
- [ ] Brown
- [ ] Green
- [ ] Orange

**Pipe Data:** Provide all relevant data.

**Pipe Material:**
- [x] Concrete
- [ ] Corrugated Metal
- [ ] Plastic
- [ ] Other

**Contributing Source(s):**
- [x] Road
- [ ] Parking Lot
- [ ] Other
- [x] Unknown

**Pipe Outlet:**
- [x] Perched
- [ ] Ramped
- [ ] At Stream Level

**Pipe Size:**
- Diameter: 3 ft.
- # of Pipes: 1

**Leak-Off Data:** Provide all relevant data.

**Leak-Off Swale:**
- [ ] Concrete
- [ ] Asphalt
- [ ] Stone
- [ ] Earthen

**Contributing Source (s):**
- [ ] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [ ] Other

**Length of Swale:** ft.

**Channel Data:** Provide all relevant data.

**Channel Material:**
- [ ] Concrete
- [ ] Asphalt
- [ ] Stone
- [ ] Earthen

**Contributing Source (s):**
- [ ] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [ ] Other
- [ ] Unknown

**Channel Length:** ft.

**Channel Width:** ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
**CT – NRCS**  
**Stream Assessment Worksheet**  
**Storm Water Outfall**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/23/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>L5</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:**  
- **Right Bank**  
- **Left Bank**  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

North of Edgewood Ave Bridge - one on each bank

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>□ Pipe</th>
<th>□ Leak Off</th>
<th>□ Channel</th>
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<tbody>
<tr>
<td>Flow:</td>
<td>□ None</td>
<td>□ Trickle</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>□ None</td>
<td>□ Sewage</td>
<td>□ Rancid/Sour</td>
</tr>
<tr>
<td>Deposits/Stains:</td>
<td>□ None</td>
<td>□ Sediment Delta</td>
<td>□ Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth</td>
<td>□ None</td>
<td>□ Brown</td>
<td>□ Green</td>
</tr>
</tbody>
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**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>□ Concrete</th>
<th>□ Corrugated Metal</th>
<th>□ Plastic</th>
<th>□ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Other</td>
<td>□ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>□ Perched</td>
<td>2 ft.</td>
<td>□ Ramped</td>
<td>□ At Stream Level</td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>□ Diameter:</td>
<td>1/2 ft.</td>
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<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>□ 1</td>
<td>□ 2</td>
<td>□ 3+</td>
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**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
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</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Recreational Field</td>
<td>□ Other</td>
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<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
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<td></td>
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<tr>
<td>Width of Swale:</td>
<td>ft.</td>
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**Channel Data:** Provide all relevant data.

<table>
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<tr>
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<th>□ Asphalt</th>
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<th>□ Earthen</th>
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<tbody>
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<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Recreational Field</td>
<td>□ Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
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</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

- Below mean high tide level - tops of bank height protruding from bank. 1-2' above low tide level. No flows observed.
- Partially submerged @ stream level during outfall. Partially filled w/sediments.

Developed By: CT-NRCS  
January 2008
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code: 
Name of Stream: West River
Reach Code: LW5
Designated Stream Type: Short 7
Site ID: 

Date: 8/23/2015
Assessed By: Renae B Will

Location of Outfall: Right Bank
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Outfall Type: 
- Pipe
- Leak Off
- Channel

Flow: 
- None
- Trickle
- Moderate
- Substantial

Odor: 
- None
- Sewage
- Rancid / Sour
- Sulfur (rotten eggs)

Deposits / Stains: 
- None
- Sediment Delta
- Oily Stain
- Black

Benthic Growth: 
- None
- Brown
- Green
- Orange

Pipe Data: Provide all relevant data.

Pipe Material: 
- Concrete
- Corrugated Metal
- Plastic
- Other

Contributing Source(s): 
- Road
- Parking Lot
- Other
- Unknown

Pipe Outlet: 
- Perched...... 1 ft.
- Ramped
- At Stream Level

Pipe Size: 
- Diameter: 1 ft.

# of Pipes: 
- 1
- 2
- 3 +

Leak-Off Data: Provide all relevant data.

Leak-Off Swale: 
- Concrete
- Asphalt
- Stone
- Earthen

Contributing Source (s): 
- Road
- Parking Lot
- Recreational Field
- Other

Length of Swale: ft.
Width of Swale: ft.

Channel Data: Provide all relevant data.

Channel Material: 
- Concrete
- Asphalt
- Stone
- Earthen

Contributing Source (s): 
- Road
- Parking Lot
- Recreational Field
- Other
- Unknown

Channel Length: ft.
Channel Width: ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Developed By: CT-NRCS
January 2006
### CT – NRCS

**Stream Assessment Worksheet**

**Storm Water Outfall**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/23/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
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<tr>
<td>Reach Code:</td>
<td>L05</td>
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<tr>
<td>Designated Stream Type:</td>
<td>Sheet 8-08-11</td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
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</table>

#### Make All Observations Facing **Downstream**

**Location of Outfall:**
- Right Bank
- Left Bank

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

*Marked as near bridge*

#### Outfall Type:
- [ ] Pipe
- [ ] Leak Off
- [ ] Channel

#### Flow:
- [ ] None
- [ ] Trickle
- [ ] Moderate
- [ ] Substantial

#### Odor:
- [ ] None
- [ ] Sewage
- [ ] Rancid / Sour
- [ ] Sulfur (rotten eggs)

#### Deposits / Stains:
- [ ] None
- [ ] Sediment Delta
- [ ] Oily Stain
- [ ] Black
- [ ] Green
- [ ] Orange

#### Benthic Growth:
- [ ] None
- [ ] Brown
- [ ] Green

#### Pipe Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Concrete</td>
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<tr>
<td>[X] Corrugated Metal</td>
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<tr>
<td>[ ] Plastic</td>
</tr>
<tr>
<td>[ ] Other</td>
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<table>
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<tr>
<th>Contributing Source(s):</th>
</tr>
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<tbody>
<tr>
<td>[ ] Road</td>
</tr>
<tr>
<td>[ ] Parking Lot</td>
</tr>
<tr>
<td>[ ] Other</td>
</tr>
<tr>
<td>[X] Unknown</td>
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</table>

<table>
<thead>
<tr>
<th>Pipe Outlet:</th>
</tr>
</thead>
</table>
| [ ] Perched...
| ft. |
| [ ] Ramped |
| [X] At Stream Level |

<table>
<thead>
<tr>
<th>Pipe Size:</th>
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<tbody>
<tr>
<td>Diameter: 18&quot;</td>
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<tbody>
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<td>[X] 1</td>
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<tr>
<td>[ ] 2</td>
</tr>
<tr>
<td>[ ] 3 +</td>
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#### Leak-Off Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
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</thead>
<tbody>
<tr>
<td>[ ] Concrete</td>
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<td>[ ] Asphalt</td>
</tr>
<tr>
<td>[ ] Stone</td>
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<tr>
<td>[ ] Earthen</td>
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<td>[ ] Road</td>
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<tr>
<td>[ ] Parking Lot</td>
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<tr>
<td>[ ] Recreational Field</td>
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<tr>
<td>[ ] Other</td>
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<td>[ ] Unknown</td>
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<th>Width of Swale:</th>
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<tr>
<td>ft.</td>
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#### Channel Data: Provide all relevant data.

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</thead>
<tbody>
<tr>
<td>[ ] Concrete</td>
</tr>
<tr>
<td>[ ] Asphalt</td>
</tr>
<tr>
<td>[ ] Stone</td>
</tr>
<tr>
<td>[ ] Earthen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contributing Source(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Road</td>
</tr>
<tr>
<td>[ ] Parking Lot</td>
</tr>
<tr>
<td>[ ] Recreational Field</td>
</tr>
<tr>
<td>[ ] Other</td>
</tr>
<tr>
<td>[ ] Unknown</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel Length:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channel Width:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft.</td>
</tr>
</tbody>
</table>

#### Notes: Use the space provided to record important observations otherwise not captured on this sheet.

*Partially submerged and filled w/ sediment @ low water*
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:  
Name of Stream: WEST RIVER  
Reach Code: LWE  
Designated Stream Type:  
Site ID:  
Date: 8/23/2015  
Assessed By: KENNEDY B. WILLIAMS

Make All Observations Facing **Downstream**

Location of Outfall:  
- Right Bank  
- Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

- A leak off + a broken pipe on Left Bank approximately a cross from center pond — camera out of battery — no pictures

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>☑ Pipe</th>
<th>☑ Leak Off</th>
<th>☑ Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>☑ None</td>
<td>☑ Trickle</td>
<td>☑ Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>☑ None</td>
<td>☑ Sewage</td>
<td>☑ Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>☑ None</td>
<td>☑ Sediment Delta</td>
<td>☑ Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>☑ None</td>
<td>☑ Brown</td>
<td>☑ Green</td>
</tr>
</tbody>
</table>

Pipe Data: Provide all relevant data.

| Pipe Material: | ☑ Concrete | ☑ Corrugated Metal | ☑ Plastic | ☑ Other |
|----------------|------------|--------------------|-----------|
| Contributing Source(s): | ☑ Road | ☑ Parking Lot | ☑ Other | ☑ Unknown |
| Pipe Outlet: | ☑ Perched | ft. | ☑ Ramped | ☑ At Stream Level |
| Pipe Size: | Diameter: | ft. | | |
| # of Pipes: | ☑ 1 | ☑ 2 | ☑ 3+ |

Leak-Off Data: Provide all relevant data.

| Leak-Off Swale: | ☑ Concrete | ☑ Asphalt | ☑ Stone | ☑ Earthen |
| Contributing Source(s): | ☑ Road | ☑ Parking Lot | ☑ Recreational Field | ☑ Other |
| Length of Swale: | 50 ft. | estimated |
| Width of Swale: | 5-8 ft. | estimated |

Channel Data: Provide all relevant data.

| Channel Material: | ☑ Concrete | ☑ Asphalt | ☑ Stone | ☑ Earthen |
| Contributing Source(s): | ☑ Road | ☑ Parking Lot | ☑ Recreational Field | ☑ Other | ☑ Unknown |
| Channel Length: | ft. | | | |
| Channel Width: | ft. | | | |

Notes: Use the space provided to record important observations otherwise not captures on this sheet.
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:  
Name of Stream: WEST RIVER  
Reach Code: lw5  
Designated Stream Type:  
Site ID:  
Date: 8/23/2015  
Assessed By:  

Make All Observations Facing Downstream

Location of Outfall:  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Outfall Type:  
Flow:  
Odor:  
 Deposits / Stains:  
Benthic Growth:  

Pipe Data: Provide all relevant data.

Pipe Material:  
Contributing Source(s):  
Pipe Outlet:  
Pipe Size:  
# of Pipes:  

Leak-Off Data: Provide all relevant data.

Leak-Off Swale:  
Contributing Source (s):  
Length of Swale:  
Width of Swale:  

Channel Data: Provide all relevant data.

Channel Material:  
Contributing Source (s):  
Channel Length:  
Channel Width:  

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

2 large stormwater outfall pipes. Northern most is both concrete + corrugated metal—which is deteriorating. Heavy stormwater flows visible during rain events, no flows observed at time of survey.

Large sediment delta as well as riprap located to Bridge approach. Base of Bridge also concrete—slightly perched with minimal flow.
Water flowing over the rip rap + from Whales Ave to the footbridge near Conson Pavilion.

Very foul smelling. Sewage like grain mingle + lots of sediment build up in channel bottom/bed.
CT - NRCS
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code: Date: 07/23/2015
Name of Stream: WEST RIVER Assessed By: KEVIN B TUCKER
Reach Code: LWS
Designated Stream Type: Sheet 0/11
Site ID:

Make All Observations Facing Downstream

Location of Outfall: ☐ Right Bank ☑ Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

CSO Outfall Below Bridge

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>☑ Pipe</th>
<th>☐ Leak Off</th>
<th>☐ Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>☑ None</td>
<td>☐ Trickle</td>
<td>☐ Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>☐ None</td>
<td>☑ Sewage</td>
<td>☐ Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>☐ None</td>
<td>☑ Sediment Delta</td>
<td>☐ Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>☐ None</td>
<td>☑ Brown</td>
<td>☑ Green</td>
</tr>
</tbody>
</table>

Pipe Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>☑ Concrete</th>
<th>☐ Corrugated Metal</th>
<th>☐ Plastic</th>
<th>☐ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☑ Road</td>
<td>☐ Parking Lot</td>
<td>☐ Other</td>
<td>☐ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>☑ Perched</td>
<td>☐ Ramped</td>
<td>☐ At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 2 x 3 ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>☑ 1</td>
<td>☐ 2</td>
<td>☐ 3+</td>
<td></td>
</tr>
</tbody>
</table>

Leak-Off Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>☐ Concrete</th>
<th>☐ Asphalt</th>
<th>☐ Stone</th>
<th>☐ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source (s):</td>
<td>☐ Road</td>
<td>☐ Parking Lot</td>
<td>☐ Recreational Field</td>
<td>☐ Other</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Channel Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>☐ Concrete</th>
<th>☐ Asphalt</th>
<th>☐ Stone</th>
<th>☐ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source (s):</td>
<td>☐ Road</td>
<td>☐ Parking Lot</td>
<td>☐ Recreational Field</td>
<td>☐ Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Use the space provided to record important observations otherwise not captures on this sheet

CSO outfall. No flows observed. For small - see Sheet 10 of 11
Survey Basin Code: | Date: 8/23/15
---|---
Name of Stream: | WEST RIVER
Reach Code: | LW6
Designated Stream Type: | 
Site ID: | 

Make All Observations Facing **Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

**Marked as MC** **on map. Large rock retaining wall behind Walgreens below Pond Lily Dam**

Mark where channel modification occurs:
- [ ] Meander Bend
- [x] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Estimate length of channel modification:** 200 ft.

**Estimate height of bank modification:** 6 ft.

<table>
<thead>
<tr>
<th>Type of Manipulation:</th>
<th>Channelization</th>
<th>Bank Armoring</th>
<th>Concrete Channel</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extent of Manipulation:</td>
<td>Right Bank</td>
<td>Left Bank</td>
<td>Channel Bottom</td>
<td></td>
</tr>
</tbody>
</table>

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- [ ] Rural Residential
- [ ] Urban Residential
- [x] Commercial
- [ ] Forested
- [ ] Agricultural
- [ ] Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.
- [x] < 15 ft.
- [ ] 15 – 35 ft.
- [ ] 35 – 50 ft.
- [ ] 50 – 100 ft
- [ ] > 100 ft

Is there a change in the average width of the active channel?  
- [ ] Yes / Estimate Width: 6 ft

Is there evidence of sediment deposition in the channel?  
- [ ] Yes

Is the channel connected to a floodplain?  
- [ ] Yes

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

*Cobble inside chains to create blocks used to protect wall from erosion.*

Developed By: CT-NRCS  
January 2008
## CT - NRCS
Stream Assessment Worksheet

**Modified Channel**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/23/13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>Lw6</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

### Make All Observations Facing Downstream

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

UPSTREAM FROM 1st BRIDGE BELOW DAM. 7-11 IS CLOSEST BUILDING OFF OF STREET ON MY SIDE. MARKED AS MC2. BRIDGE IS RAMSELL AVE.

**Mark where channel modification occurs:**
- [x] Meander Bend
- □ Straight Section
- □ Steep Slope/Valley Wall
- □ Other

**Estimate length of channel modification:** 100 ft.

**Estimate height of bank modification:** 6 ft.

**Type of Manipulation:**
- □ Channelization
- □ Bank Armoring
- [x] Concrete Channel
- □ Other

**Extent of Manipulation:**
- [x] Right Bank
- □ Left Bank
- □ Channel Bottom

**Channel / Bank Materials:**
- □ Natural
- □ Rip Rap
- [x] Concrete
- □ Gabions
- □ Metal

### Immediately Adjacent Land Use:
Mark the land use(s) immediately adjacent to the modified section.

- □ Rural Residential
- □ Urban Residential
- [x] Commercial
- □ Forested
- □ Suburban Residential
- □ Industrial
- □ Agricultural
- □ Recreational

### Existing Width of Riparian Vegetation:
Mark the average width of riparian vegetation to the modified section.

- [x] < 15 ft.
- □ 15 – 35 ft.
- □ 35 – 50 ft.
- □ 50 – 100 ft.
- □ > 100 ft

**Is there a change in the average width of the active channel?**
- □ Yes / Estimate Width: 6 ft
- [x] No

**Is there evidence of sediment deposition in the channel?**
- □ Yes
- [x] No

**Is the channel connected to a floodplain?**
- □ Yes
- [x] No

### Notes:
Use the space provided to record important observations otherwise not captured on this sheet.

CONCRETE STONE WALL BUILD AS EROSION BARRIER.
## CT – NRCS
### Stream Assessment Worksheet

**Fish Barrier**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/23/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>West River</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>Long</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing *Downstream*

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

- Pond Lily Dam marked as B on map.

<table>
<thead>
<tr>
<th>Type of Barrier:</th>
<th>Mark the type of fish barrier.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Dam</td>
<td>☐ Culvert</td>
</tr>
<tr>
<td>☐ Velocity Barrier</td>
<td>☐ Other</td>
</tr>
</tbody>
</table>

**Dam Data:** Provide all relevant data.

- Height of Dam: 7 ft.
- Length of Spillway: 60 ft.
- Shape of Spillway: Straight
- Materials: Stone
- Is there other infrastructure associated with the Dam? No
- Dam Data:

<table>
<thead>
<tr>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Stone</td>
</tr>
<tr>
<td>☐ Concrete</td>
</tr>
<tr>
<td>☑ Stone &amp; Concrete</td>
</tr>
<tr>
<td>☐ Timber-Crib</td>
</tr>
<tr>
<td>☐ Other</td>
</tr>
</tbody>
</table>

**Culvert Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Type of Culvert:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Box</td>
</tr>
<tr>
<td>☐ Pipe</td>
</tr>
<tr>
<td>☐ Pipe-Arch</td>
</tr>
<tr>
<td>☐ Arch</td>
</tr>
<tr>
<td>☐ Concrete</td>
</tr>
<tr>
<td>☐ Corrugated Metal</td>
</tr>
<tr>
<td>☐ Plastic</td>
</tr>
<tr>
<td>☐ Stone</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Culvert Material:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Concrete</td>
</tr>
<tr>
<td>☐ Corrugated Metal</td>
</tr>
<tr>
<td>☐ Plastic</td>
</tr>
<tr>
<td>☐ Stone</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Culvert Outlet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Perched:......</td>
</tr>
<tr>
<td>☐ Ramp</td>
</tr>
<tr>
<td>☐ Submerged</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Culvert Size:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter: ft.</td>
</tr>
<tr>
<td>Height: ft.</td>
</tr>
<tr>
<td>Width: ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th># of Culverts:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Culvert Length: ft.</td>
</tr>
</tbody>
</table>

**Velocity Barrier Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Nature of Barrier:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Grade Control Sill</td>
</tr>
<tr>
<td>☐ Concrete Apron</td>
</tr>
<tr>
<td>☐ Channel Cross-Section</td>
</tr>
<tr>
<td>☐ Other</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length of Barrier:</th>
</tr>
</thead>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
Survey Basin Code:  
Name of Stream: WEST RIVER  
Reach Code:  
Designated Stream Type:  
Site ID:  

Date: 8/23/15  
Assessed By: MORGAN EVANS  

Location of Barrier:  Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.
A FEW HUNDRED FEET UPSTREAM OF VALLEY ST BRIDGE. MARKED AS (B2)

Type of Barrier:  Mark the type of fish barrier.
- Dam  
- Culvert  
- Velocity Barrier  
- Other

Dam Data:  Provide all relevant data.
Height of Dam: 1 ft.  
Length of Spillway: 25 ft.  
Shape of Spillway: Straight
Materials:  
- Stone  
- Concrete  
- Stone & Concrete  
- Timber-Crib  
- Other
Is there other infrastructure associated with the Dam? No
Factory  
Hydro Facility  
Mill  
Residence  
Other

Culvert Data:  Provide all relevant data.
Type of Culvert:  
- Box  
- Pipe  
- Pipe-Arch  
- Arch  
- Concrete  
- Corrugated Metal  
- Plastic  
- Stone
Culvert Outlet:  
- Perched:...... ft.  
- Ramped  
- Submerged
Culvert Size:  
Diameter: ft.  
Height: ft.  
Width: ft.
# of Culverts:  
Culvert Length: ft.

Velocity Barrier Data:  Provide all relevant data.
Nature of Barrier:  
- Grade Control Sill  
- Concrete Apron  
- Channel Cross-Section  
- Other
Length of Barrier:  

Notes:  Use the space provided to record important observations otherwise not captured on this sheet.
LOW, OLD CONCRETE DAM, BROKEN APART IN MANY PLACES, NOT CAUSING FULL BLOCK OFF STREAM.
**Survey Basin Code:**

**Name of Stream:** West River

**Reach Code:** LWG

**Designated Stream Type:**

**Site ID:**

**Location of Outfall:**
- ☑ Right Bank  ❑ Left Bank

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

100 Feet upstream of East Ramsheld Bridge. Marked on map as (0).

**Outfall Type:**
- ☑ Pipe
- ❑ Leak Off
- ❑ Channel

**Flow:**
- ❑ None
- ☑ Trickle
- ❑ Moderate
- ❑ Substantial

**Odor:**
- ☑ None
- ❑ Sewage
- ❑ Rancid / Sour
- ❑ Sulfur (rotten eggs)

**Deposits / Stains:**
-✖️ None
- ❑ Sediment Delta
- ❑ Oily Stain
- ❑ Black
- ❑ Brown
- ❑ Green
- ❑ Orange

**Benthic Growth:**
- ❑ None

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material</th>
<th>Concrete</th>
<th>Corrugated Metal</th>
<th>Plastic</th>
<th>Other</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Contributing Source(s)</th>
<th>Road</th>
<th>Parking Lot</th>
<th>Other</th>
<th>Unknown</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pipe Outlet</th>
<th>Perched</th>
<th>Ramped</th>
<th>At Stream Level</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pipe Size Diameter</th>
<th>3 ft.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th># of Pipes</th>
<th>1</th>
<th>2</th>
<th>3+</th>
</tr>
</thead>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale</th>
<th>Concrete</th>
<th>Asphalt</th>
<th>Stone</th>
<th>Earthen</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Contributing Source (s)</th>
<th>Road</th>
<th>Parking Lot</th>
<th>Recreational Field</th>
<th>Other</th>
<th>Unknown</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Length of Swale</th>
<th>ft.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Width of Swale</th>
<th>ft.</th>
</tr>
</thead>
</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material</th>
<th>Concrete</th>
<th>Asphalt</th>
<th>Stone</th>
<th>Earthen</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Contributing Source (s)</th>
<th>Road</th>
<th>Parking Lot</th>
<th>Recreational Field</th>
<th>Other</th>
<th>Unknown</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Channel Length</th>
<th>ft.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Channel Width</th>
<th>ft.</th>
</tr>
</thead>
</table>

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
Stream Assessment Worksheet

Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/23/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>Lono</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location of Outfall:** [ ] Right Bank  [ ] Left Bank
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

MARKED ON MAP AS [ ] Two outfalls next to each other. This one was made externally of brick.

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>[ ] Pipe</th>
<th>[ ] Leak Off</th>
<th>[ ] Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>[ ] None</td>
<td>[ ] Trickle</td>
<td>[ ] Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>[ ] None</td>
<td>[ ] Sewage</td>
<td>[ ] Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains</td>
<td>[ ] None</td>
<td>[ ] Sediment Delta</td>
<td>[ ] Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth</td>
<td>[ ] None</td>
<td>[ ] Brown</td>
<td>[ ] Green</td>
</tr>
</tbody>
</table>

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>[ ] Concrete</th>
<th>[ ] Corrugated Metal</th>
<th>[ ] Plastic</th>
<th>[ ] Other (brick)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>[ ] Road</td>
<td>[ ] Parking Lot</td>
<td>[ ] Other</td>
<td>[ ] Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>[ ] Perched ...... ft.</td>
<td>[ ] Ramped</td>
<td>[ ] At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 6 ft.</td>
<td># of Pipes:</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>3 +</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>[ ] Concrete</th>
<th>[ ] Asphalt</th>
<th>[ ] Stone</th>
<th>[ ] Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>[ ] Road</td>
<td>[ ] Parking Lot</td>
<td>[ ] Recreational Field</td>
<td>[ ] Other</td>
</tr>
</tbody>
</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>[ ] Concrete</th>
<th>[ ] Asphalt</th>
<th>[ ] Stone</th>
<th>[ ] Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>[ ] Road</td>
<td>[ ] Parking Lot</td>
<td>[ ] Recreational Field</td>
<td>[ ] Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Developed By: CT-NRCS
January 2008
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/28/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>Levee</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location of Outfall:**
- □ Right Bank
- □ Left Bank

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

JUST UPSTREAM OF VALLEY ST. BRIDGE. 2 PIPES RIGHT NEAR EACH OTHER. ALSO LOCATION OF ☑ FISH BARRIER.

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>□ Pipe</th>
<th>□ Leak Off</th>
<th>□ Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>□ None</td>
<td>□ Trickle</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>□ None</td>
<td>□ Sewage</td>
<td>□ Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>□ None</td>
<td>□ Sediment Delta</td>
<td>□ Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>□ None</td>
<td>□ Brown</td>
<td>□ Green</td>
</tr>
</tbody>
</table>

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>□ Concrete</th>
<th>□ Corrugated Metal</th>
<th>□ Plastic</th>
<th>□ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Other</td>
<td>□ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>□ Perched……</td>
<td>□ Ramped</td>
<td>□ At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 2 ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>□ 1</td>
<td>□ 2</td>
<td>□ 3 +</td>
<td></td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Recreational Field</td>
<td>□ Other</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Recreational Field</td>
<td>□ Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
**CT – NRCS**  
Stream Assessment Worksheet  

**Storm Water Outfall**

**Survey Basin Code:**  
**Date:** 8/23/15

**Name of Stream:** WEST RIVER  
**Assessed By:** MORGAN EVANS

**Reach Code:** LG6  
**Designated Stream Type:**

**Site ID:**

---

**Make All Observations Facing Downstream**

**Location of Outfall:**  
- Right Bank  
- Left Bank

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

100 FEET DOWNSTREAM OF VALLEY ST. BRIDGE. MARKED AS 04 ON MAP.

---

**Outfall Type:**  
- **√ Pipe**  
- **□ Leak Off**  
- **□ Channel**

**Flow:**  
- **√ None**  
- **□ Trickle**  
- **□ Moderate**  
- **□ Substantial**

**Odor:**  
- **√ None**  
- **□ Sewage**  
- **□ Rancid / Sour**  
- **□ Sulfur (rotten eggs)**

**Deposits / Stains:**  
- **√ None**  
- **□ Sediment Delta**  
- **□ Oily Stain**  
- **□ Black**

**Benthic Growth:**  
- **√ None**  
- **□ Brown**  
- **□ Green**  
- **□ Orange**

**Pipe Data:** Provide all relevant data.

**Pipe Material:**  
- **√ Concrete**  
- **□ Corrugated Metal**  
- **□ Plastic**  
- **□ Other**

**Contributing Source(s):**  
- **√ Road**  
- **□ Parking Lot**  
- **□ Other**  
- **□ Unknown**

**Pipe Outlet:**  
- **√ Perched… AT 4 ft.**  
- **□ Ramped**  
- **□ At Stream Level**

**Pipe Size:**  
- Diameter: 2 ft.

**# of Pipes:**  
- **1**  
- **□ 2**  
- **□ 3+**

---

**Leak-Off Data:** Provide all relevant data.

**Leak-Off Swale:**  
- **□ Concrete**  
- **□ Asphalt**  
- **□ Stone**  
- **□ Earthen**

**Contributing Source (s):**  
- **□ Road**  
- **□ Parking Lot**  
- **□ Recreational Field**  
- **□ Other**

**Length of Swale:**  
- ft.

**Width of Swale:**  
- ft.

---

**Channel Data:** Provide all relevant data.

**Channel Material:**  
- **□ Concrete**  
- **□ Asphalt**  
- **□ Stone**  
- **□ Earthen**

**Contributing Source (s):**  
- **□ Road**  
- **□ Parking Lot**  
- **□ Recreational Field**  
- **□ Other**  
- **□ Unknown**

**Channel Length:**  
- ft.

**Channel Width:**  
- ft.

---

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
CT-NRCS  
Stream Assessment Sheet  
Reach Level Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s): 8/23/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WEST RIVER</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>LW6</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

Was the entire reach of stream surveyed? ☑ Yes ☐ No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Step-Pool ☐</th>
<th>Pool-Riffle ☒</th>
<th>Run ☐</th>
<th>Glide ☐</th>
<th>*□ Manipulated Channel (piped, lined, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Channel Width:</td>
<td>15' FEET</td>
<td>Glide Depth:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Riffle Depth:</td>
<td>2' FEET</td>
<td>Step Height:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pool Depth:</td>
<td>3' FEET</td>
<td>Bank Height (Right Bank): 3' FEET</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run Depth:</td>
<td>2' FEET</td>
<td>Bank Height (Left Bank): 3' FEET</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Substrate Composition: Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Silt or Clay</th>
<th>☒ &lt;5%</th>
<th>☐ 5-25%</th>
<th>☐ 25-50%</th>
<th>☐ 50-75%</th>
<th>☐ &gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>☐ &lt;5%</td>
<td>☒ 5-25%</td>
<td>☐ 25-50%</td>
<td>☐ 50-75%</td>
<td>☐ &gt;75%</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>☒ &lt;5%</td>
<td>☒ 5-25%</td>
<td>☐ 25-50%</td>
<td>☐ 50-75%</td>
<td>☐ &gt;75%</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>☒ &lt;5%</td>
<td>☒ 5-25%</td>
<td>☐ 25-50%</td>
<td>☐ 50-75%</td>
<td>☒ &gt;75%</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>☒ &lt;5%</td>
<td>☒ 5-25%</td>
<td>☇ 25-50%</td>
<td>☐ 50-75%</td>
<td>☐ &gt;75%</td>
</tr>
<tr>
<td>Bedrock</td>
<td>☒ &lt;5%</td>
<td>☐ 5-25%</td>
<td>☐ 25-50%</td>
<td>☐ 50-75%</td>
<td>☐ &gt;75%</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

| ☒ Clear | ☐ Stained ("iced tea") | ☒ Turbid (muddy / silty) |
| ☐ Green | ☒ Rusty-Red | ☒ Milky |
| ☐ Odors | ☒ Other (foam, dyes, chemicals) |

Aquatic Plants in Stream:

| Floating: (e.g. duck weed) | ☒ Absent | ☐ In Spots | ☐ Everywhere |
| Attached: (e.g. water lily) | ☐ Absent | ☒ In Spots | ☐ Everywhere |

Algae in Stream:

| Floating: (e.g. planktonic) | ☒ Absent | ☐ In Spots | ☐ Everywhere |
| Attached: (e.g. filamentous) | ☐ Absent | ☒ In Spots | ☐ Everywhere |

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

| ☐ >75% covered | ☒ 75-50% covered | ☐ 50%-25% covered | ☐ < 25% covered |

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
CT-NRCS
Stream Assessment Sheet
Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
</tr>
</tbody>
</table>

Surrounding Land Use: Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Rural Residential</td>
<td>□ Agricultural</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>□ Suburban Residential</td>
<td>□ Forested</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>□ Urban Residential</td>
<td>□ Recreational</td>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>□ Industrial</td>
<td>□ Other</td>
<td>□ Industrial</td>
</tr>
<tr>
<td>□ Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

Areas of Concern Checklist: Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: □ Yes □ No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? □ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? □ Yes □ No
- Is there any portion of the reach that has a change in water conditions? □ Yes □ No

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Developed By: CT-NRCS
January 2008
Completed Stream Assessment Forms
Sargent Brook (Reference Reach)
### CT-NRCS
#### Stream Assessment Sheet

**Reach Level Assessment**

Survey Basin Code: 
Name of Stream: Sergeant Brook 
Reach Code: Reference Reach 
Designated Stream Type: 

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed?  
Yes  No, Which section(s) were not surveyed? Why?

### Channel Morphology:
Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step-Pool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pool-Riffle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manipulated Channel (piped, lined, etc.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Active Channel Width:  
Riffle Depth:  
Pool Depth:  
Run Depth:  
Glide Depth:  
Step Height:  
Bank Height (Right Bank):  
Bank Height (Left Bank):  

### Substrate Composition:
Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Substrate Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
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<td>&lt;5%</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>&lt;5%</td>
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<tr>
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<td>&lt;5%</td>
</tr>
<tr>
<td>5-25%</td>
<td>25-50%</td>
</tr>
<tr>
<td>25-50%</td>
<td>50-75%</td>
</tr>
<tr>
<td>&gt;75%</td>
<td></td>
</tr>
</tbody>
</table>

### Describe Water Conditions:
Mark all that apply.

- Clear
- Stained (“iced tea”)
- Turbid (muddy/silty)
- Green
- Rusty-Red
- Milky
- Other (foam, dyes, chemicals)

### Aquatic Plants in Stream:

- Floating: (e.g. duck weed)  
  - Absent  
  - In Spots  
  - Everywhere
- Attached: (e.g. water lily)  
  - Absent  
  - In Spots  
  - Everywhere

### Algae in Stream:

- Floating: (e.g. planktonic)  
  - Absent  
  - In Spots  
  - Everywhere
- Attached: (e.g. filamentous)  
  - Absent  
  - In Spots  
  - Everywhere

### Canopy Cover:
Mark approximate percentage of stream covered by tree canopy.

- >75% covered
- 75-50% covered
- 50-25% covered
- <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
CT-NRCS
Stream Assessment Sheet

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

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</tr>
<tr>
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<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
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<td>□ Forested</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>□ Industrial</td>
<td>□ Other</td>
<td>□ Industrial</td>
</tr>
<tr>
<td>□ Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? [ ] Yes [ ] No
- Are there any dams or any other possible natural or artificial barriers to fish migration? [ ] Yes [ ] No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: ________.
  - Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? [ ] Yes [ ] No
  - Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? [ ] Yes [ ] No
  - Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? [ ] Yes [ ] No
  - Is there any portion of the reach that has a change in water conditions? [ ] Yes [ ] No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
### CT - NRCS
Stream Assessment Worksheet

**Fish Barrier**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7/7/2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

### Make All Observations Facing **Downstream**

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

- Marker posts on map screen shot on far end of reach near Dam - Pond

### Type of Barrier: Mark the type of fish barrier.

- [ ] Dam
- [ ] Culvert
- [ ] Velocity Barrier
- [ ] Other

### Dam Data: Provide all relevant data.

- **Height of Dam:** 4 ft.
- **Length of Spillway:** 7 ft.
- **Shape of Spillway:** Straight
- **Materials:**
  - [ ] Stone
  - [ ] Concrete
  - [ ] Stone & Concrete
  - [ ] Timber-Crib
  - [ ] Other

- **Is there other infrastructure associated with the Dam?**
  - [ ] No
  - [ ] Yes (If yes mark the type below)
    - [ ] Factory
    - [ ] Hydro Facility
    - [ ] Mill
    - [ ] Residence
    - [ ] Other

### Culvert Data: Provide all relevant data.

- **Type of Culvert:**
  - [ ] Box
  - [ ] Pipe
  - [ ] Pipe-Arch
  - [ ] Arch

- **Culvert Material:**
  - [ ] Concrete
  - [ ] Corrugated Metal
  - [ ] Plastic
  - [ ] Stone

- **Culvert Outlet:**
  - [ ] Perched: 3 ft.
  - [ ] Ramped
  - [ ] Submerged

- **Culvert Size:**
  - Diameter: 24" ft.
  - Height: 3 ft.
  - Width: 5 ft.

- **# of Culverts:**
  - [ ] Culvert Length: 5 ft.

### Velocity Barrier Data: Provide all relevant data.

- **Nature of Barrier:**
  - [ ] Grade Control Sill
  - [ ] Concrete Apron
  - [ ] Channel Cross-Section
  - [ ] Other

- **Length of Barrier:**

### Notes: Use the space provided to record important observations otherwise not captured on this sheet.

- Picture of area above dam - sand, silt, organic material.
- 9-10' channel 50' upstream.
### CT - NRCS
Stream Assessment Worksheet

**Trash / Debris**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7/1/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Wampat Brook</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>47-41-41</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td>1</td>
</tr>
</tbody>
</table>

**Make All Observations Facing **Downstream****

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- Marked on photo + google map screen shot

**Within Stream**

**Riparian Area:**
- [☐] Left Bank
- [☐] Right Bank

<table>
<thead>
<tr>
<th>Type:</th>
<th>[☐] Residential</th>
<th>[☐] Commercial</th>
<th>[☐] Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>[☐] Plastic</td>
<td>[☒] Tires</td>
<td>[☐] Appliances</td>
</tr>
<tr>
<td></td>
<td>[☐] Paper</td>
<td>[☐] Metal</td>
<td>[☐] Automotive</td>
</tr>
<tr>
<td></td>
<td>[☐] Yard Waste</td>
<td>[☐] Construction</td>
<td>[☐] Medical</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source:</th>
<th>[☐] Unknown</th>
<th>[☐] Flooding</th>
<th>[☒] Illegal Dumping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Ownership:</td>
<td>[☐] Private</td>
<td>[☐] Public</td>
<td>[☒] Unknown</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

- Remnant of old bridge found laying across channel - another section downstream

*Developed By: CT.NRCS*  
January 2008
Completed Stream Assessment Forms
Wintergreen Brook
Leanne 914 295-4197
iluminar 2@ yahoo.com
1 bloom@ savethesound.org
# CT-NRCS Stream Assessment Sheet

**Survey Basin Code:** Date(s): 8/3/15

**Name of Stream:** Wintergreen Brook  
**Reach Code:** WB 01  
**Designated Stream Type:** Fresh Water

**Make All Observations Facing Downstream**

Was the entire reach of stream surveyed? **Yes**  
**No**, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Condition</th>
<th>1 in.</th>
<th>2 in.</th>
<th>3 in.</th>
<th>4 in.</th>
<th>5 in.</th>
<th>6 in.</th>
<th>7 in.</th>
<th>8 in.</th>
<th>9 in.</th>
<th>10 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Channel Width:</td>
<td>20 ft</td>
<td>Glide Depth:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pool Depth:</td>
<td>18 inches</td>
<td>Bank Height (Right Bank): 24 inches</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run Depth:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td>≤5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td>≤5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>&gt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>&gt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>&gt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bedrock</td>
<td>≤5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Describe Water Conditions:** Mark all that apply.

<table>
<thead>
<tr>
<th>Condition</th>
<th>1 in.</th>
<th>2 in.</th>
<th>3 in.</th>
<th>4 in.</th>
<th>5 in.</th>
<th>6 in.</th>
<th>7 in.</th>
<th>8 in.</th>
<th>9 in.</th>
<th>10 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Stained (“iced tea”)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Turbid (muddy / silty)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Green</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Rusty-Red</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Milky</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Other (foam, dyes, chemicals)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

**Aquatic Plants in Stream:**

- Floating: (e.g. duck weed)  
- Attached: (e.g. water lily)

- Absent:  
- In Spots:  
- Everywhere:

**Algae in Stream:**

- Floating: (e.g. planktonic)  
- Attached: (e.g. filamentous)

- Absent:  
- In Spots:  
- Everywhere:

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<table>
<thead>
<tr>
<th>Percent Covered</th>
<th>1 in.</th>
<th>2 in.</th>
<th>3 in.</th>
<th>4 in.</th>
<th>5 in.</th>
<th>6 in.</th>
<th>7 in.</th>
<th>8 in.</th>
<th>9 in.</th>
<th>10 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;75% covered</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>75-50% covered</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>50-25% covered</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>&lt;25% covered</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

**Developed By:** CT-NRCS  
**January 2008**
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

<table>
<thead>
<tr>
<th>Riparian Vegetation:</th>
<th>Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Left Bank</td>
</tr>
<tr>
<td>Turf Grass</td>
<td></td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Surrounding Land Use:</th>
<th>Mark the dominate land use(s) for each “zone”, if known or observed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediately adjacent to stream</td>
<td>&lt; ¼ Mile from stream</td>
</tr>
<tr>
<td>□ Rural Residential</td>
<td>□ Agricultural</td>
</tr>
<tr>
<td>□ Suburban Residential</td>
<td>□ Forested</td>
</tr>
<tr>
<td>□ Urban Residential</td>
<td>□ Recreational</td>
</tr>
<tr>
<td>□ Commercial</td>
<td>□ Other</td>
</tr>
</tbody>
</table>

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?  □ Yes □ No
Are there any dams or any other possible natural or artificial barriers to fish migration?  □ Yes □ No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed.  □ Yes □ No
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?  □ Yes □ No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?  □ Yes □ No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?  □ Yes □ No
Is there any portion of the reach that has a change in water conditions?  □ Yes □ No

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
CT – NRCS  
Stream Assessment Worksheet  
Modified Channel

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>8/3/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>Wintergreen Brook</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td>WB 4</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td>Site ID:</td>
<td>Fresh</td>
</tr>
</tbody>
</table>

### Make All Observations Facing Downstream

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

1. Bank behind 61 Springside Ave (right bank)
2. Both Banks - section from Blake St Bridge to West River (entire section)

**Mark where channel modification occurs:**

- [ ] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Estimate length of channel modification:** ft.

- [ ] 900 – 1000 ft

**Estimate height of bank modification:** ft.

**Type of Manipulation:**

- [ ] Channelization
- [ ] Bank Armoring
- [ ] Concrete Channel
- [ ] Other

**Extent of Manipulation:**

- [ ] Right Bank
- [ ] Left Bank
- [ ] Channel Bottom

**Channel / Bank Materials:**

- [ ] Natural
- [ ] Rip Rap
- [ ] Concrete
- [ ] Gabions
- [ ] Metal

### Immediately Adjacent Land Use:

- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

- [ ] < 15 ft.
- [ ] 15 – 35 ft.
- [ ] 35 – 50 ft.
- [ ] 50 – 100 ft.
- [ ] > 100 ft

Is there a change in the average width of the active channel?

- [ ] Yes / Estimate Width: ft. 15
- [ ] No

Is there evidence of sediment deposition in the channel?

- [ ] Yes
- [ ] No

Is the channel connected to a floodplain?

- [ ] Yes
- [ ] No

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

- Left bank has steel wall and transitions into stone piled bank
- Right bank is concrete

Developed By: CT-NRCS  
January 2008
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 8/3/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Wintergreen Brook</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>WB 1</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td>Freshwater</td>
</tr>
<tr>
<td>Assessed By:</td>
<td>CG River Stewards</td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:** [ ] Right Bank  [ ] Left Bank  Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

**Outfall Type:**  [ ] Pipe  [ ] Leak Off  [ ] Channel

**Flow:**  [ ] None  [ ] Trickle  [ ] Moderate  [ ] Substantial

**Odor:**  [ ] None  [ ] Sewage  [ ] Rancid / Sour  [ ] Sulfur (rotten eggs)

**Deposits / Stains:**  [ ] None  [ ] Sediment Delta  [ ] Oily Stain  [ ] Black

**Benthic Growth:**  [ ] None  [ ] Brown  [ ] Green  [ ] Orange

**Pipe Data: Provide all relevant data.**

- **Pipe Material:**  [ ] Concrete  [ ] Corrugated Metal  [ ] Plastic  [ ] Other
- **Contributing Source(s):**  [ ] Road  [ ] Parking Lot  [ ] Other  [ ] Unknown
- **Pipe Outlet:**  [ ] Perched  [ ] ft.  [ ] Ramped  [ ] At Stream Level
- **Pipe Size:**  Diameter: 18 inches  24 inches  12 inches
- **# of Pipes:**  [ ] 1  [ ] 2  [ ] 3 +

**Leak-Off Data: Provide all relevant data.**

- **Leak-Off Swale:**  [ ] Concrete  [ ] Asphalt  [ ] Stone  [ ] Earthen
- **Contributing Source (s):**  [ ] Road  [ ] Parking Lot  [ ] Recreational Field  [ ] Other
- **Length of Swale:**  ft.
- **Width of Swale:**  ft.

**Channel Data: Provide all relevant data.**

- **Channel Material:**  [ ] Concrete  [ ] Asphalt  [ ] Stone  [ ] Earthen
- **Contributing Source (s):**  [ ] Road  [ ] Parking Lot  [ ] Recreational Field  [ ] Other  [ ] Unknown
- **Channel Length:**  ft.
- **Channel Width:**  ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

- Old large concrete storm pipe - section broken and in brook (right bank)
- Storm drain from right bank, drains under road - run off from west rock
- Several storm drains from SCSU parking lot

Developed By: CT-NRCS
January 2018
CT - NRCS
Stream Assessment Worksheet

 Degraded Buffer

Survey Basin Code:  
Name of Stream: Wintergreen Brook
Reach Code: WB 1
Designated Stream Type: Fresh
Site ID: 

Date: 8/3/15
Assessed By: CG West River Stewards

Make All Observations Facing Downstream

Location / Extent of Degraded Buffer: 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Mark where the degraded buffer occurs.

<table>
<thead>
<tr>
<th></th>
<th>Meander Bend</th>
<th>Straight Section</th>
<th>Steep Slope/Valley Wall</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Estimate length of degraded buffer: 200 ft.

Type of Degradation:

<table>
<thead>
<tr>
<th></th>
<th>Minimal Vegetation</th>
<th>Minimal Width</th>
<th>Invasive Plants</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dominant Land Cover

<table>
<thead>
<tr>
<th></th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

<table>
<thead>
<tr>
<th></th>
<th>Rural Residential</th>
<th>Urban Residential</th>
<th>Commercial</th>
<th>Forested</th>
<th>Recreational</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.

<table>
<thead>
<tr>
<th></th>
<th>&lt; 15 ft.</th>
<th>15 - 35 ft.</th>
<th>35 - 50 ft.</th>
<th>50 - 100 ft</th>
<th>&gt; 100 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

- Bank is steep
- Buffer is small
- adjacent to large parking lot (SCSU)

Developed By: CT-NRCS
January 2008
CT–NRCS  
Stream Assessment Worksheet  

Trash / Debris

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>8/3/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>Wintergreen Brook</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td>WB 1</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td>Fresh water</td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.
1. Behind B'nai Cemetery - several spots  
2. Behind SCSU Parking lot (Lot #9)  
3. Trash in water

- [ ] Within Stream  
- [ ] Riparian Area:  
- [ ] Left Bank  
- [ ] Right Bank

**Type:**  
- [ ] Residential  
- [ ] Commercial  
- [ ] Industrial

**Material:**  
- [x] Plastic  
- [ ] Tires  
- [ ] Appliances  
- [ ] Paper  
- [ ] Metal  
- [ ] Automotive  
- [ ] Yard Waste  
- [ ] Construction  
- [ ] Medical  
- [ ] Other

**Source:**  
- [x] Unknown  
- [ ] Flooding  
- [ ] Illegal Dumping  
- [ ] Local Outfall

**Land Ownership:**  
- [ ] Private  
- [ ] Public  
- [ ] Unknown

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

- Lots of trash in water for entire reach
**CT-NRCS**

**Stream Assessment Sheet**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s): 1/27/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Wintergreen Brook</td>
<td>CG West River Stewards</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>Freshwater</td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed?  ✔ Yes  □ No, Which section(s) were not surveyed? Why?

<table>
<thead>
<tr>
<th>Channel Morphology:</th>
<th>Mark the predominate condition(s), and indicate the average measurements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Step-Pool</td>
<td>☑ Pool-Ripple</td>
</tr>
<tr>
<td>□ Run</td>
<td>□ Glide</td>
</tr>
<tr>
<td>*□ Manipulated Channel (piped, lined, etc.)</td>
<td></td>
</tr>
<tr>
<td>Active Channel Width:</td>
<td>15 - 20 ft</td>
</tr>
<tr>
<td>Glide Depth:</td>
<td></td>
</tr>
<tr>
<td>riffle Depth:</td>
<td>3 inches</td>
</tr>
<tr>
<td>Pool Depth:</td>
<td>8 - 10 inches</td>
</tr>
<tr>
<td>Run Depth:</td>
<td>Bank Height (Right Bank): 10 inches</td>
</tr>
<tr>
<td></td>
<td>Bank Height (Left Bank): 10 inches</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substrate Composition:</th>
<th>Mark approximate percentages for each substrate type observed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td>□ &lt;5%  □ 5 - 25%  ○ 25 - 50%  □ 50 - 75%  □ &gt;75%</td>
</tr>
<tr>
<td>Sand</td>
<td>□ &lt;5%  □ 5 - 25%  ○ 25 - 50%  □ 50 - 75%  □ &gt;75%</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>□ &lt;5%  □ 5 - 25%  ○ 25 - 50%  □ 50 - 75%  □ &gt;75%</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>□ &lt;5%  □ 5 - 25%  ○ 25 - 50%  □ 50 - 75%  □ &gt;75%</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>○ &lt;5%  □ 5 - 25%  ○ 25 - 50%  □ 50 - 75%  □ &gt;75%</td>
</tr>
<tr>
<td>Bedrock</td>
<td>□ &lt;5%  □ 5 - 25%  ○ 25 - 50%  □ 50 - 75%  □ &gt;75%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Describe Water Conditions:</th>
<th>Mark all that apply.</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔ Clear</td>
<td></td>
</tr>
<tr>
<td>□ Stained (&quot;iced tea&quot;)</td>
<td></td>
</tr>
<tr>
<td>*□ Turbid (muddy / silty)</td>
<td></td>
</tr>
<tr>
<td>*□ Green</td>
<td></td>
</tr>
<tr>
<td>*□ Rusty-Red</td>
<td></td>
</tr>
<tr>
<td>*□ Milky</td>
<td></td>
</tr>
<tr>
<td>*□ Odors</td>
<td></td>
</tr>
<tr>
<td>*□ Other (foam, dyes, chemicals)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aquatic Plants in Stream:</th>
<th>Mark the predominate condition(s).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. duck weed)</td>
<td>□ Absent  □ In Spots  *□ Everywhere</td>
</tr>
<tr>
<td>Attached: (e.g. water lily)</td>
<td>□ Absent  ✔ In Spots  *□ Everywhere</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Algae in Stream:</th>
<th>Mark the predominate condition(s).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. planktonic)</td>
<td>□ Absent  □ In Spots  *□ Everywhere</td>
</tr>
<tr>
<td>Attached: (e.g. filamentous)</td>
<td>✔ Absent  □ In Spots  *□ Everywhere</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canopy Cover:</th>
<th>Mark approximate percentage of stream covered by tree canopy.</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ &gt;75% covered</td>
<td>✔ 75 - 50% covered  □ 50% - 25% covered  □ &lt; 25% covered</td>
</tr>
</tbody>
</table>

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Area of Concern Worksheets
Indicate # and type of sheets completed for this reach assessment:

- Erosion
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash / Debris
- Water Conditions

Developed By: CT-NRCS
January 2008
# CT-NRCS
## Stream Assessment Sheet
### Reach Level Assessment

#### Riparian Vegetation:
Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

#### Surrounding Land Use:
Mark the dominate land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th></th>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rural Residential</td>
<td>Agricultural</td>
<td>Rural Residential</td>
</tr>
<tr>
<td></td>
<td>Suburban Residential</td>
<td>Forested</td>
<td>Suburban Residential</td>
</tr>
<tr>
<td></td>
<td>Urban Residential</td>
<td>Recreational</td>
<td>Urban Residential</td>
</tr>
<tr>
<td></td>
<td>Industrial</td>
<td>Other</td>
<td>Industrial</td>
</tr>
<tr>
<td></td>
<td>Commercial</td>
<td>Commercial</td>
<td>Commercial</td>
</tr>
</tbody>
</table>

#### Areas of Concern Checklist:
Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and/or area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? ☑ Yes ☐ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? ☐ Yes ☑ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: [ ]
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, riprap)? ☑ Yes ☐ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? ☑ Yes ☐ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? ☑ Yes ☐ No
- Is there any portion of the reach that has a change in water conditions? ☑ Yes ☐ No

#### Notes:
Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

- Erosion is taking place at the beginning of reach (near West Rock Nature Center). The right bank which is 30 feet high is being eroded.
- Trash was found in a large pile near neighborhood bordering West Rock Nature Center.
- Large amounts of trash were in Brook in section between Winslow Field and Brookside Ave.
**CT - NRCS**  
**Stream Assessment Worksheet**

**Erosion Assessment**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>1/27/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td></td>
<td>Wintergreen Brook</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td>WB2</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td>Freshwater</td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Assessed By:**  
6W West River Stewards

---

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

*See WB2 google Map and Notes*

---

**Mark where erosion is occurring:**

- [X] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

---

**Site Dimensions:** Indicate all applicable measurements associated with the erosion site.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank:</th>
<th>Right Bank:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length:</td>
<td>ft.</td>
<td>50-75 ft.</td>
</tr>
<tr>
<td>Bank Height:</td>
<td>ft.</td>
<td>30-40 ft.</td>
</tr>
<tr>
<td>Bank Angle:</td>
<td>deg.</td>
<td>70-80 deg.</td>
</tr>
</tbody>
</table>

---

**What is the proximity of the erosion site to infrastructure** (e.g. road, bridge, building, etc.)?

- [ ] < 15 ft
- [ ] 15 - 30 ft
- [ ] 30 - 45 ft
- [ ] 45 - 60 ft
- [ ] 60 - 100 ft
- [X] > 100 ft

---

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.

- [X] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [X] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

---

**Land Ownership:** Mark land ownership at the location of the erosion site.

- [ ] Public
- [ ] Private
- [X] Unknown

---

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.

- [X] < 15 ft.
- [ ] 15 - 35 ft.
- [ ] 35 - 50 ft.
- [ ] 50 - 100 ft
- [ ] > 100 ft

---

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

*The entire wall of Brook is being eroded (30-40ft) high.*
**CT - NRCS**  
*Stream Assessment Worksheet*

**Trash / Debris**

| Survey Basin Code: | Date:  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7/27/15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of Stream:</th>
<th>Assessed By:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wintergreen Brook</td>
<td>West River Stewards</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reach Code:</th>
<th>Designated Stream Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB 2</td>
<td>Freshwater</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Trash or Debris:** Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- See WB2 google map and notes

- Within Stream  
- Riparian Area:  
  - Left Bank  
  - Right Bank

**Type:**

- Residential
- Commercial
- Industrial

**Material:**

- Plastic
- Tires
- Appliances
- Other
- Paper
- Metal
- Automotive
- Yard Waste
- Metal
- Construction
- Medical

**Source:**

- Unknown
- Flooding
- Illegal Dumping
- Local Outfall

**Land Ownership:**

- Private
- Public
- Unknown

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

- Trash pile was on Right Bank above Winslow Field several hundred yards
- Trash in Brook was highest in section below Winslow Field
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

Survey Basin Code: Date(s): 7-20-15
Name of Stream: Wintergreen Brook Assessed By: CG West River Stewards
Reach Code: WB-2
Designated Stream Type: Fresh Water

Make All Observations Facing Downstream

Was the entire reach of stream surveyed? Yes ☐ No ☐, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominant condition(s), and indicate the average measurements.
☐ Step-Pool ☑ Pool-Riffle ☐ Run ☐ Glide ☑ Manipulated Channel (piped, lined, etc.)
Active Channel Width: 30-50 ft
Riffle Depth: 1 1/2 inch
Pool Depth: 3 inches
Run Depth: 3 inches
Glide Depth:
Step Height:
Bank Height (Right Bank): 3 inches
Bank Height (Left Bank): 3 inches

Substrate Composition: Mark approximate percentages for each substrate type observed.
☐ Silt or Clay ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Sand ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Gravel (0.1-2 inches) ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Cobble (2-10 inches) ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Boulder (>10 inches) ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%
☐ Bedrock ☐ <5% ☐ 5-25% ☐ 25-50% ☐ 50-75% ☐ >75%

Describe Water Conditions: Mark all that apply.
☑ Clear ☑ Stained ("iced tea") ☐ Turbid (muddy / silty)
* ☑ Green ☑ Rusty-Red ☑ Milky
* ☑ Odors ☑ Other (foam, dyes, chemicals)

Aquatic Plants in Stream: /
Floating: (e.g. duck weed) ☑ Absent ☐ In Spots ☑ Everywhere
Attached: (e.g. water lily) ☐ Absent ☑ In Spots ☑ Everywhere

Algae in Stream:
Floating: (e.g. planktonic) ☑ Absent ☑ In Spots ☑ Everywhere
Attached: (e.g. filamentous) ☑ Absent ☑ In Spots ☑ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.
☐ >75% covered ☐ 75-50% covered ☑ 50%-25% covered ☐ < 25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Area of Concern Worksheets
Indicate # and type of sheets completed for this reach assessment
Erosion
Fish Barrier 2
Storm Water Outfall
Modified Channel 2
Impacted Buffer
Trash / Debris
Water Conditions

Developed By: CT-NRCS
January 2008
Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Grass</td>
<td>☑ Low</td>
<td>☑ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>☐ Low</td>
<td>☐ Low</td>
<td>☐ Moderate</td>
<td>☐ Moderate</td>
<td>☐ High</td>
<td>☐ High</td>
</tr>
</tbody>
</table>

Surrounding Land Use: Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; 1/2 Mile from stream</th>
<th>&gt; 1/2 Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Rural Residential</td>
<td>☐ Agricultural</td>
<td>☐ Rural Residential</td>
</tr>
<tr>
<td>☐ Suburban Residential</td>
<td>☑ Forested</td>
<td>☐ Suburban Residential</td>
</tr>
<tr>
<td>☐ Urban Residential</td>
<td>☐ Recreational</td>
<td>☐ Urban Residential</td>
</tr>
<tr>
<td>☐ Industrial</td>
<td>☐ Other</td>
<td>☐ Industrial</td>
</tr>
<tr>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
</tr>
</tbody>
</table>

Areas of Concern Checklist: Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streamed instability within the reach? ☐ Yes ☑ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? ☑ Yes ☐ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: ________
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? ☑ Yes ☐ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? ☑ Yes ☐ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? ☑ Yes ☐ No
- Is there any portion of the reach that has a change in water conditions? ☑ Yes ☐ No

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
**CT - NRCS**

**Stream Assessment Worksheet**

**Fish Barrier**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>7/20/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>C.G. River Stewards</td>
</tr>
<tr>
<td>Reach Code: WB 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td>Freshwater</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

- 1. Dam @ Lake Wintergreen (start of reach)
- 2. Culvert and Rock Pile at Wintergreen Ave
- 3. Culvert @ Carbonella Dr
  - Shallow Concrete Bottom

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

**Type of Barrier:** Mark the type of fish barrier.

- [ ] Dam
- [ ] Culvert
- [ ] Velocity Barrier
- [ ] Other

**Dam Data:** Provide all relevant data.

- Height of Dam: 40 ft.
- Length of Spillway: ft.
- Shape of Spillway: [ ] Straight [ ] Crescent
- Materials: [ ] Stone [ ] Concrete [ ] Stone & Concrete [ ] Timber-Crib [ ] Other
- Is there other infrastructure associated with the Dam? [ ] No [ ] Yes (If yes mark the type below)
  - [ ] Factory
  - [ ] Hydro Facility
  - [ ] Mill
  - [ ] Residence
  - [ ] Other

**Culvert Data:** Provide all relevant data.

- Type of Culvert: [ ] Box
- [ ] Pipe
- [ ] Pipe-Arch
- [ ] Arch
- [ ] Concrete
- [ ] Corrugated Metal
- [ ] Plastic
- [ ] Stone
- Culvert Outlet: [ ] Perched:…… ft. [ ] Ramped [ ] Submerged
- # of Culverts: 2
- Culvert Length: 30 ft.

**Velocity Barrier Data:** Provide all relevant data.

- Nature of Barrier: [ ] Grade Control Sill [ ] Concrete Apron [ ] Channel Cross-Section [ ] Other
- Length of Barrier: ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
## Survey Basin Code: [Date: 7/20/15]

**Name of Stream:** Wintergreen Brook  
**Assessed By:**  
**Reach Code:** WB 3  
**Designated Stream Type:** Fresh Water  
**Site ID:**

### Make All Observations Facing **Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

1. Downstream of Wintergreen Ave Bridge
2. Above, Under, and Downstream of R+15 Bridge

**Mark where channel modification occurs:**

- [ ] Meander Bend  
- [ ] Straight Section  
- [ ] Steep Slope/Valley Wall  
- [ ] Other

**Estimate length of channel modification:** 400 ft.

**Estimate height of bank modification:** 3 - 6 ft.

### Type of Manipulation:

- [ ] Channelization  
- [ ] Bank Armoring  
- [ ] Concrete Channel  
- [ ] Other

### Extent of Manipulation:

- [ ] Right Bank  
- [ ] Left Bank  
- [ ] Channel Bottom  

### Channel / Bank Materials:

- [ ] Natural  
- [ ] Rip Rap  
- [ ] Concrete  
- [ ] Gabions  
- [ ] Metal

### Immediately Adjacent Land Use:

- [ ] Rural Residential  
- [ ] Urban Residential  
- [ ] Commercial  
- [ ] Forested  
- [ ] Suburban Residential  
- [ ] Industrial  
- [ ] Agricultural  
- [ ] Recreational

### Existing Width of Riparian Vegetation:

- [ ] < 15 ft.  
- [ ] 15 - 35 ft.  
- [ ] 35 - 50 ft.  
- [ ] 50 - 100 ft.  
- [ ] > 100 ft.

**Is there a change in the average width of the active channel?**

- [ ] Yes / Estimate Width: [ft]  
- [ ] No

**Is there evidence of sediment deposition in the channel?**

- [ ] Yes  
- [ ] No

**Is the channel connected to a floodplain?**

- [ ] Yes  
- [ ] No

### Notes: Use the space provided to record important observations otherwise not captures on this sheet.

---

**Developed By:** CT-NRCS  
**January 2008**
Duckweed everywhere
Wintergreen Brook WB 4 Survey

Untitled layer

Stream Culvert

Sediment build-up and Duckweed

Rust Colored Water and Algae

Duckweed and Attached Vegetation
<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s):</th>
<th>7/13/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td></td>
<td>Wintergreen Brook</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td>WB 92 4</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td>Fresh Water</td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream.

Was the entire reach of stream surveyed?  Yes  No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

- [ ] Step-Pool
- [ ] Pool-Riffle
- [ ] Run
- [ ] Glide
- [ ] Manipulated Channel (piped, lined, etc.)

- Active Channel Width: 6 ft
- Glide Depth: 6 inches
- riffle depth: 2-3 inches
- pool depth: 2 inches
- run depth: 1 inches

Bank Height (Right Bank): 8 inches
Bank Height (Left Bank): 8 inches

Substrate Composition: Mark approximate percentages for each substrate type observed.

- [ ] Silt or Clay 40%<5% 25%<5% 50%<5% 75%<5% >75%
- [ ] Sand 40%<5% 25%<5% 50%<5% 75%<5% >75%
- [ ] Gravel (0.1-2 inches) 40%<5% 25%<5% 50%<5% 75%<5% >75%
- [ ] Cobble (2-10 inches) 40%<5% 25%<5% 50%<5% 75%<5% >75%
- [ ] Boulder (>10 inches) 40%<5% 25%<5% 50%<5% 75%<5% >75%
- [ ] Bedrock 40%<5% 25%<5% 50%<5% 75%<5% >75%

Describe Water Conditions: Mark all that apply.

- [ ] Clear
- [ ] Stained ("iced tea")
- [ ] Turbid (muddy / silty)
- [ ] Green
- [ ] Rusty-Red
- [ ] Milky
- [ ] Odors
- [ ] Other (foam, dyes, chemicals)

Aquatic Plants in Stream:

- Floating: (e.g. duck weed) 40% Absent 25% In Spots 50% Everywhere
- Attached: (e.g. water lily) 40% Absent 25% In Spots 50% Everywhere

Algae in Stream:

- Floating: (e.g. planktonic) 40% Absent 25% In Spots 50% Everywhere
- Attached: (e.g. filamentous) 40% Absent 25% In Spots 50% Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

- [ ] >75% covered 75-50% covered 50%-25% covered <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
### Riparian Vegetation:
Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Grass</td>
<td>✔️Low</td>
<td>✔️Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>✔️Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

### Surrounding Land Use:
Mark the dominant land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>Agricultural</td>
<td>Rural Residential</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>Forested</td>
<td>Suburban Residential</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>Recreational</td>
<td>Urban Residential</td>
</tr>
<tr>
<td>Industrial</td>
<td>Other</td>
<td>Industrial</td>
</tr>
<tr>
<td>Commercial</td>
<td></td>
<td>Commercial</td>
</tr>
</tbody>
</table>

### Areas of Concern Checklist:
Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

1. Is there evidence of either stream bank erosion or streambed instability within the reach?  
   - Yes  - No
2. Are there any dams or other possible natural or artificial barriers to fish migration?  
   - Yes  - No
3. Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:  
   - Yes  - No
4. Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?  
   - Yes  - No
5. Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?  
   - Yes  - No
6. Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?  
   - Yes  - No
7. Is there any portion of the reach that has a change in water conditions?  
   - Yes  - No

### Notes:
Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

- There are several pipes that run under the pathway that drains water from wet lands to Wintergreen Brook. Most are on the Right Bank, some on the Left Bank.
CT - NRCS
Stream Assessment Worksheet

Fish Barrier

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream: Wintergreen Brook</td>
<td>Assessed By: Common Ground Wes: River Stewards</td>
</tr>
<tr>
<td>Reach Code: WB 4</td>
<td>Kendall Barbery on hand for a portion of the survey</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td>Site ID:</td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

Location of Barrier: Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

1/3 of the way between Lake Wintergreen and Mountain Road (from south to north)—stream passes through a culvert

Type of Barrier: Mark the type of fish barrier.

- [ ] Dam
- [x] Culvert
- [ ] Velocity Barrier
- [ ] Other

Dam Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Height of Dam: ft.</th>
<th>Length of Spillway: ft.</th>
<th>Shape of Spillway: [ ] Straight [ ] Crescent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials: [ ] Stone</td>
<td>[ ] Concrete</td>
<td>[ ] Stone &amp; Concrete [ ] Timber-Crib [ ] Other</td>
</tr>
<tr>
<td>Is there other infrastructure associated with the Dam? [ ] No [ ] Yes (If yes mark the type below)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[ ] Factory</td>
<td>[ ] Hydro Facility</td>
<td>[ ] Mill</td>
</tr>
</tbody>
</table>

Culvert Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Type of Culvert: [ ] Box</th>
<th>[x] Pipe</th>
<th>[ ] Pipe-Arch</th>
<th>[ ] Arch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Culvert Material: [ ] Concrete</td>
<td>[ ] Corrugated Metal</td>
<td>[ ] Plastic</td>
<td>[ ] Stone</td>
</tr>
<tr>
<td>Culvert Outlet: [ ] Perched:……… ft.</td>
<td>[ ] Ramped</td>
<td>[x] Submerged</td>
<td></td>
</tr>
<tr>
<td># of Culverts:</td>
<td>Culvert Length: 8 ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Velocity Barrier Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Nature of Barrier: [ ] Grade Control Sill</th>
<th>[ ] Concrete Apron</th>
<th>[ ] Channel Cross-Section</th>
<th>[ ] Other</th>
</tr>
</thead>
</table>

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Stream passes through culvert as adjacent road shifts from left bank to right bank.
CT – NRCS
Stream Assessment Worksheet

Modified Channel

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream: Wintergreen Brook</td>
<td>Assessed By: Common Ground West River Stewards</td>
</tr>
<tr>
<td>Reach Code: WB 4</td>
<td>Kendall Barbery on hand for a portion of the survey</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

The entire reach is channelized, from the pond in LW5 to Lake Wintergreen. There is an old road, now foot path adjacent to the stream. Several culverts connect a surrounding wetland area to the main stem of the brook.

This worksheet highlights an extensive culvert that the brook passes through near the northern end of the reach 750 feet according to aerial scan on Google Maps. 900 feet paced out by D. Edgeworth in the field. See attached Google Map and screen shot of 1934 aerial survey.

**Mark where channel modification occurs:**

- [ ] Meander Bend
- [x] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Estimate length of channel modification:** 750-800 ft.

**Estimate height of bank modification:** 5’ high 6’8” wide

**Type of Manipulation:**

- [ ] Channelization
- [ ] Bank Armoring
- [ ] Concrete Channel
- [x] Other

**Extent of Manipulation:**

- [x] Right Bank
- [x] Left Bank
- [ ] Channel Bottom

**Channel / Bank Materials:**

- [ ] Natural
- [ ] Rip Rap
- [x] Concrete
- [ ] Gabions
- [ ] Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [x] Forested
- [ ] Industrial
- [x] Agricultural
- [ ] Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

- [ ] < 15 ft.
- [ ] 15 – 35 ft.
- [x] 35 – 50 ft.
- [ ] 50 – 100 ft
- [ ] > 100 ft

Is there a change in the average width of the active channel? **x Yes / Estimate Width:** 2 ft **[ ] No**

Is there evidence of sediment deposition in the channel? **x Yes** **[ ] No**

Is the channel connected to a floodplain? **[ ] Yes** **x No**

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

The culvert is made of stone and concrete. The top of it is covered with soil and vegetation. There is a section right at the beginning that lacks canopy. The remainder is vegetated and has emergent canopy—mixed coniferous and deciduous.
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
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</tr>
</thead>
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<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:** x Right Bank  □ Left Bank
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Several culverts were observed along the right bank, which appear to connect surrounding wetland areas to the main stem of Wintergreen Brook—which are otherwise blocked by a road/path that extends the length of the channel between Mountain Road and Lake Wintergreen.

One 6” culvert was perched several feet above the stream level. The main stem of the channel passed through an 8’ long 6” diameter culvert about 1/3rd of the way between Lake Wintergreen and Mountain Road. Two larger outfalls, each about 2’6” in diameter and 24’2” long were partially submerged in the channel. The area around these two outfalls was particularly eroded, possibly for back eddies that occur during high flow conditions—which has led to some channel widening immediately around the outfall as well as sediment deposition immediately downstream of the outfall.

**Outfall Type:** x Pipe  □ Leak Off  □ Channel

**Flow:** x None  □ Trickle  □ Moderate  □ Substantial

**Odor:** x None  □ Sewage  □ Rancid / Sour  □ Sulfur (rotten eggs)

**Deposits / Stains** x None  □ Sediment Delta  □ Oily Stain  □ Black

**Benthic Growth** x None  □ Brown  □ Green  □ Orange

**Pipe Data:** Provide all relevant data.

**Pipe Material:** x Concrete  □ Corrugated Metal  □ Plastic  □ Other

**Contributing Source(s):** □ Road  □ Parking Lot  □ Other  □ Unknown

**Pipe Outlet:** □ Perched………4 ft.  □ Ramped  □ At Stream Level

**Pipe Size:** □ Diameter: ft.

**# of Pipes:** x 2 @ 6” diameter (one in main stem of channel—that brook passes through, one connecting wetland area to channel)  x 2 @ 2’6” diameter, 24’ long  □ 3 +

**Leak-Off Data:** Provide all relevant data.

**Leak-Off Swale:** □ Concrete  □ Asphalt  □ Stone  □ Earthen

**Contributing Source(s):** □ Road  □ Parking Lot  □ Recreational Field  □ Other

**Length of Swale:** ft.

**Width of Swale:** ft.

**Channel Data:** Provide all relevant data.

**Channel Material:** □ Concrete  □ Asphalt  □ Stone  □ Earthen

**Contributing Source(s):** □ Road  □ Parking Lot  □ Recreational Field  □ Other  □ Unknown

**Channel Length:** ft.

**Channel Width:** ft.

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
CT – NRCS
Stream Assessment Worksheet
Visual Water Conditions / Excessive Plant or Algae Growth

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
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<td></td>
</tr>
<tr>
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<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing Downstream

Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth: 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

The channel, just north of the inlet to Lake Wintergreen, is covered in duckweed.

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

| X Rural Residential | ☐ Urban Residential | ☐ Commercial | x Forested |
| ☐ Suburban Residential | ☐ Industrial | ☐ Agricultural | X Recreational |

Describe Water Conditions: Mark all that apply.

| X Clear | ☐ Stained ("iced tea") | ☐ Turbid (muddy / silty) | ☐ Odors |
| ☐ Green | ☐ Rusty-Red | ☐ Milky | ☐ Other (foam, dyes, chemicals) |

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

| ☐ >75% covered | ☐ 75-50% covered | x 50%-25% covered | ☐ < 25% covered |

Aquatic Plants in Stream:

| Floating: (e.g. duck weed) | ☐ Absent | ☐ In Spots | x Everywhere |
| Attached: (e.g. water lily) | x Absent | ☐ In Spots | ☐ Everywhere |

Algae in Stream:

| Floating: (e.g. planktonic) | X Absent | ☐ In Spots | ☐ Everywhere |
| Attached: (e.g. filamentous) | x Absent | ☐ In Spots | ☐ Everywhere |

Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall? ☐ Yes x No

Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)? x Yes ☐ No

Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream? x Yes ☐ No

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

The duckweed occurs immediately upstream of Lake Wintergreen, where water in the channel slows down and lots of sediment has accumulated. Channel bottom comprised of a deep layer of soft, organic debris and fine sediments. Water surface covered by duckweed.
CT – NRCS
Stream Assessment Worksheet

Visual Water Conditions / Excessive Plant or Algae Growth

<table>
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<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Between the inlet of the extensive culvert described in the AOC Manipulated Channel Worksheet and the power line buffer (south of Mountain Road) the stream passes through a coniferous canopy—of Old Field White Pine—and the water changes in appearance from clear/lightly stained to rusty in color with an oily sheen on the surface.

---

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

- □ Rural Residential
- □ Urban Residential
- □ Commercial
- □ Suburban Residential
- □ Industrial
- □ Agricultural
- □ Forested
- □ Recreational

**Describe Water Conditions:** Mark all that apply.

- □ Clear
- □ Stained ("iced tea")
- □ Turbid (muddy / silty)
- □ Milky
- □ Odors
- □ Other (foam, dyes, chemicals)

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

- □ >75% covered
- □ 75-50% covered
- □ 50%-25% covered
- □ < 25% covered

**Aquatic Plants in Stream:**

- Floating: (e.g. duck weed)
  - □ Absent
  - □ In Spots
  - □ Everywhere
- Attached: (e.g. water lily)
  - □ Absent
  - □ In Spots
  - □ Everywhere

**Algae in Stream:**

- Floating: (e.g. planktonic)
  - □ Absent
  - □ In Spots
  - □ Everywhere
- Attached: (e.g. filamentous)
  - □ Absent
  - □ In Spots
  - □ Everywhere

**Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?**

- □ Yes
- □ No

**Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?**

- □ Yes / □ No

**Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?**

- □ Yes / □ No

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

Change in water conditions occur upstream of extensive culvert and beneath a canopy of Old Field White Pine. The banks of the stream are visibly channelized and straightened with a bank made of stacked stone.

Developed By: CT-NRCS
January 2008
**CT - NRCS**  
**Stream Assessment Worksheet**  
**Visual Water Conditions / Excessive Plant or Algae Growth**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7/13/2015 (assessed) 8/31/2015 (transcribed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream: Wintergreen Brook</td>
<td>Assessed By: Common Ground West River Stewards</td>
</tr>
<tr>
<td>Reach Code: WB 4</td>
<td>Kendall Barbery on hand for a portion of the survey</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth:** 1) Mark and label the location on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Between the power line buffer and mountain road, the stream is visibly straightened and channelized with banks made of stacked stone. Just north of the power line buffer, there is lots of attached vegetation and duckweed and the water is cloudy in appearance.

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

<table>
<thead>
<tr>
<th>Rural Residential</th>
<th>Urban Residential</th>
<th>Commercial</th>
<th>Forested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suburban Residential</td>
<td>Industrial</td>
<td>Agricultural</td>
<td>Recreational</td>
</tr>
</tbody>
</table>

**Describe Water Conditions:** Mark all that apply.

<table>
<thead>
<tr>
<th>Clear</th>
<th>Stained (&quot;iced tea&quot;)</th>
<th>Turbid (muddy / silty)</th>
<th>Odors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Rusty-Red</td>
<td>Milky</td>
<td>Other (foam, dyes, chemicals)</td>
</tr>
</tbody>
</table>

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<table>
<thead>
<tr>
<th>&gt;75% covered</th>
<th>75-50% covered</th>
<th>50%-25% covered</th>
<th>&lt;25% covered</th>
</tr>
</thead>
</table>

**Aquatic Plants in Stream:**

<table>
<thead>
<tr>
<th>Floating: (e.g. duckweed)</th>
<th>Absent</th>
<th>In Spots</th>
<th>Everywhere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attached: (e.g. water lily)</td>
<td>Absent</td>
<td>In Spots</td>
<td>Everywhere</td>
</tr>
</tbody>
</table>

**Algae in Stream:**

<table>
<thead>
<tr>
<th>Floating: (e.g. planktonic)</th>
<th>Absent</th>
<th>In Spots</th>
<th>Everywhere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attached: (e.g. filamentous)</td>
<td>Absent</td>
<td>In Spots</td>
<td>Everywhere</td>
</tr>
</tbody>
</table>

**Is the change in water condition or excessive plant / algae growth located at or directly below a storm water outfall?**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

**Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

**Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

This section of the stream emerges from a culvert on Mountain Road and is channelized/straightened. The water is slow moving, as discharge from an impoundment upstream of Mountain Road (in WB 5) is minimal—the area of concern is not immediately abutting an impoundment, but it’s likely that the low discharge from the impoundment upstream has an influence on sediment deposit and vegetation in this portion of the channel. In WB 5, just upstream, attached vegetation dominates in the stream channel and water levels are low.
CT-NRCS
Stream Assessment Sheet
Reach Level Assessment

Survey Basin Code:  
Name of Stream: WINTERGREEN BROOK  
Assessed By: DAVE EVANS  
Reach Code: W65  
Levee  
Designated Stream Type: fresh  
6 West River SteWARDS

Make All Observations Facing Downstream

Was the entire reach of stream surveyed?  
Yes  
No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Active Channel Width</th>
<th>Glide Depth:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step-Pool</td>
<td>5-6&quot;</td>
</tr>
<tr>
<td>Pool-Riffle</td>
<td></td>
</tr>
<tr>
<td>Run</td>
<td></td>
</tr>
<tr>
<td>Glide</td>
<td></td>
</tr>
<tr>
<td>Glide</td>
<td></td>
</tr>
<tr>
<td>Step Height:</td>
<td></td>
</tr>
<tr>
<td>Bank Height (Right Bank)</td>
<td>7&quot;</td>
</tr>
<tr>
<td>Pool Depth:</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Run Depth:</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>

Substrate Composition: Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Silt or Clay</th>
<th>5-25%</th>
<th>25-50%</th>
<th>50-75%</th>
<th>&gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>gravel (0.1-2 inches)</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>cobble (2-10 inches)</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>boulder (&gt;10 inches)</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>Bedrock</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>&gt;75%</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

<table>
<thead>
<tr>
<th>Clear</th>
<th>Stained (“iced tea”)</th>
<th>Turbid (muddy/silty)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rusty-Red</td>
<td>Milky</td>
</tr>
<tr>
<td>Odors</td>
<td>Other (foam, dyes, chemicals)</td>
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</tr>
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Aquatic Plants in Stream:

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<td>Everywhere</td>
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Algae in Stream:

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<th>Everywhere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attached: (e.g. filamentous)</td>
<td>Absent</td>
<td>In Spots</td>
<td>Everywhere</td>
</tr>
</tbody>
</table>

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

| >75% covered | 75-50% covered | 50-25% covered | <25% covered |

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Area of Concern Worksheets

Erosion  
Fish Barrier  
Storm Water Outfall  
Modified Channel  
Impacted Buffer  
Trash / Debris  
Water Conditions

Developed By: CT-NRCS  
January 2008
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th></th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt;¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>□ Agricultural</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>□ Forested</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>□ Recreational</td>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

Areas of Concern Checklist: Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: __________.
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? □ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? □ Yes □ No
- Is there any portion of the reach that has a change in water conditions? □ Yes □ No

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
# CT – NRCS
## Stream Assessment Worksheet

### Fish Barrier

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of Stream:</th>
<th>Assessed By:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reach Code:</th>
<th>Designated Stream Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>w65-6b</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site ID:</th>
<th>Make All Observations Facing Downstream</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

**Type of Barrier:** Mark the type of fish barrier.

- **Dam**
- □ Culvert
- □ Velocity Barrier
- □ Other

**Dam Data:** Provide all relevant data.

- **Height of Dam:** 15 ft.
- **Length of Spillway:** 10 ft.
- **Shape of Spillway:** □ Straight
  - □ Crescent
- **Materials:**
  - □ Stone
  - □ Concrete
  - □ Stone & Concrete
  - □ Timber-Crib
  - □ Other

**Is there other infrastructure associated with the Dam?**

- □ No
- □ Yes (If yes mark the type below)

- □ Factory
- □ Hydro Facility
- □ Mill
- □ Residence
- □ Other

**Culvert Data:** Provide all relevant data.

- **Type of Culvert:**
  - □ Box
  - □ Pipe
  - □ Pipe-Arch
  - □ Arch

- **Culvert Material:**
  - □ Concrete
  - □ Corrugated Metal
  - □ Plastic
  - □ Stone

- **Culvert Outlet:**
  - □ Perched:...
  - □ Ramped
  - □ Submerged

- **Culvert Size:**
  - **Diameter:** 24
  - **Height:** 2 ft.
  - **Width:** 4 ft.

- **# of Culverts:**
  - 1

**Velocity Barrier Data:** Provide all relevant data.

- **Nature of Barrier:**
  - □ Grade Control Sill
  - □ Concrete Apron
  - □ Channel Cross-Section
  - □ Other

- **Length of Barrier:** 7 ft.
  - **Approx. Vertical Rise:** 2 ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing *Downstream***

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

Mark where channel modification occurs:

- [ ] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Estimate length of channel modification:** ft.

**Estimate height of bank modification:** ft.

**Type of Manipulation:**

- [ ] Channelization
- [ ] Bank Armoring
- [ ] Concrete Channel
- [ ] Other

**Extent of Manipulation:**

- [ ] Right Bank
- [ ] Left Bank
- [ ] Channel Bottom

**Channel / Bank Materials:**

- [ ] Natural
- [ ] Rip Rap
- [ ] Concrete
- [ ] Gabions
- [ ] Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.

- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.

- [ ] < 15 ft.
- [ ] 15 - 35 ft.
- [ ] 35 - 50 ft.
- [ ] 50 - 100 ft
- [ ] > 100 ft

**Is there a change in the average width of the active channel?**

- [ ] Yes / Estimate Width: ft
- [ ] No

**Is there evidence of sediment deposition in the channel?**

- [ ] Yes
- [ ] No

**Is the channel connected to a floodplain?**

- [ ] Yes
- [ ] No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.
CT-NRCS
Stream Assessment Sheet

Survey Basin Code: Wintergreen Brook
Reach Code: WS5-B
Designated Stream Type: Fresh
Date(s): 7/6/15
Assessed By: CG Wr Stewards

Make All Observations Facing Downstream
Was the entire reach of stream surveyed? □ Yes □ No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominating condition(s), and indicate the average measurements.

- □ Step-Pool
- □ Pool-Riffe
- □ Run
- □ Glide
- * □ Manipulated Channel (piped, lined, etc.)

<table>
<thead>
<tr>
<th>Active Channel Width</th>
<th>Glide Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4 feet</td>
<td>5-6 inches</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reach Level Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riffle Depth:</td>
</tr>
<tr>
<td>Step Height:</td>
</tr>
<tr>
<td>Pool Depth:</td>
</tr>
<tr>
<td>Bank Height (Right Bank):</td>
</tr>
<tr>
<td>Run Depth:</td>
</tr>
<tr>
<td>Bank Height (Left Bank):</td>
</tr>
</tbody>
</table>

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Silt or Clay</th>
<th>&lt;5%</th>
<th>5-25%</th>
<th>25-50%</th>
<th>50-75%</th>
<th>&gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td></td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>Bedrock</td>
<td></td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
</tr>
</tbody>
</table>

**Describe Water Conditions:** Mark all that apply.

- □ Clear
- □ Stained ("iced tea")
- * □ Turbid (muddy/silty)
- * □ Green
- * □ Rusty-Red
- * □ Milky
- * □ Odors
- * □ Other (foam, dyes, chemicals)

**Aquatic Plants in Stream:**

- Floating: (e.g. duck weed) □ Absent □ In Spots * □ Everywhere
- Attached: (e.g. water lily) □ Absent □ In Spots * □ Everywhere

**Algae in Stream:**

- Floating: (e.g. planktonic) □ Absent □ In Spots * □ Everywhere
- Attached: (e.g. filamentous) □ Absent □ In Spots * □ Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

- □ >75% covered □ 75-50% covered □ 50-25% covered □ < 25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Area of Concern Worksheets

- Erosion
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash/Debris
- Water Conditions

Developed By CT-NRCS
January 2008
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

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<tr>
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<tr>
<td>Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
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<tr>
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<td>Low</td>
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</table>

Surrounding Land Use: Mark the dominate land use(s) for each "zone", if known or observed.

<table>
<thead>
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<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
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<td></td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>Agricultural</td>
<td>Rural Residential</td>
</tr>
<tr>
<td>Forested</td>
<td>Suburban Residential</td>
<td></td>
</tr>
<tr>
<td>Urban Residential</td>
<td>Recreational</td>
<td>Urban Residential</td>
</tr>
<tr>
<td>Industrial</td>
<td>Other</td>
<td>Other</td>
</tr>
<tr>
<td>Commercial</td>
<td></td>
<td>Commercial</td>
</tr>
</tbody>
</table>

Areas of Concern Checklist: Marking Yes to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach?  
Yes  No

Are there any dams or any other possible natural or artificial barriers to fish migration?  
Yes  No

Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:  
Yes  No

Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?  
Yes  No

Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?  
Yes  No

Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?  
Yes  No

Is there any portion of the reach that has a change in water conditions?  
Yes  No

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Diverted

Developed By CT-NRCS
January 2008
# CT-NRCS Stream Assessment Sheet

## Reach Level Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s):</th>
<th>7-20-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>West River Stewards</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td>WS-27</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td>Fresh Water</td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed?  
☑ Yes  □ No, Which section(s) were not surveyed? Why?

---

### Channel Morphology:
Mark the predominate condition(s), and indicate the average measurements.

- [ ] Step-Pool
- [ ] Pool-Riffle
- [ ] Run
- [ ] Glide
- [ ] Manipulated Channel (piped, lined, etc.)

- Active Channel Width: 10-12 inches
- Glide Depth: 3 inches
- Riffle Depth: 1-2 inches
- Step Height: 3 inches
- Pool Depth: 5 inches
- Bank Height (Right Bank): 3 inches
- Run Depth: 3 inches
- Bank Height (Left Bank): 3 inches

### Substrate Composition:
Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Silt or Clay</th>
<th>□ &lt;5%</th>
<th>□ 5-25%</th>
<th>□ 25-50%</th>
<th>□ 50-75%</th>
<th>□ &gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
<tr>
<td>Bedrock</td>
<td>□ &lt;5%</td>
<td>□ 5-25%</td>
<td>□ 25-50%</td>
<td>□ 50-75%</td>
<td>□ &gt;75%</td>
</tr>
</tbody>
</table>

### Describe Water Conditions:
Mark all that apply.

- [ ] Clear
- [ ] Stained ("iced tea")
- [ ] Turbid (muddy / silty)
- [ ] Green
- [ ] Rusty-Red
- [ ] Milky
- [ ] Odors
- [ ] Other (foam, dyes, chemicals)

### Aquatic Plants in Stream:

- Floating: (e.g. duck weed) □ Absent □ In Spots □ Everywhere
- Attached: (e.g. water lily) □ Absent □ In Spots □ Everywhere

### Algae in Stream:

- Floating: (e.g. planktonic) □ Absent □ In Spots □ Everywhere
- Attached: (e.g. filamentous) □ Absent □ In Spots □ Everywhere

### Canopy Cover:
Mark approximate percentage of stream covered by tree canopy.

- □ >75% covered
- □ 75-50% covered
- □ 50%-25% covered
- □ < 25% covered

---

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

---

**Area of Concern Worksheets**

Indicate # and type of sheets completed for this reach assessment.

- Erosion
- Fish Barrier 2
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash / Debris
- Water Conditions

---

** Developed By: CT-NRCS January 2008**
**CT-NRCS Stream Assessment Sheet**

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>✔ Low</td>
<td>✔ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Rural Residential</td>
<td>□ Agricultural</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>□ Suburban Residential</td>
<td>✔ Forested</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>□ Urban Residential</td>
<td>□ Recreational</td>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>□ Industrial</td>
<td>□ Other</td>
<td>□ Industrial</td>
</tr>
<tr>
<td>□ Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: ______
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? □ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? □ Yes □ No
- Is there any portion of the reach that has a change in water conditions? □ Yes □ No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Developed By: CT-NRCS
January 2008
## CT-NRCS
### Stream Assessment Sheet

**Survey Basin Code:**

**Name of Stream:** Winnek Green Brook

**Reach Code:** WB

**Designated Stream Type:** Fresh Waters

**Date(s):** 7/13/2015

**Assessed By:** COR Stream 15

---

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed?  ☑ Yes  ☐ No, Which section(s) were not surveyed? Why?

---

### Channel Morphology:
Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Step-Pool</th>
<th>Pool-Riffle</th>
<th>Run</th>
<th>Glide</th>
<th>Manipulated Channel (piped, lined, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Active Channel Width:** 2 ft

**Glide Depth:** 6 inches

**Riffle Depth:** 2-3 inches

**Run Depth:** 8 inches

**Bank Height (Right Bank):** 8 inches

**Bank Height (Left Bank):** 8 inches

---

### Substrate Composition:
Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Silt or Clay</th>
<th>Sand</th>
<th>Gravel (0.1-2 inches)</th>
<th>Cobble (2-10 inches)</th>
<th>Boulder (&gt;10 inches)</th>
<th>Bedrock</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ &lt;5%</td>
<td>✔</td>
<td>✔ 5-25%</td>
<td>✔ 25-50%</td>
<td>● 5-25%</td>
<td>✔ &gt;75%</td>
</tr>
</tbody>
</table>

---

### Describe Water Conditions:
Mark all that apply.

- ✔ Clear
- ☐ Stained ("iced tea")
- ☐ Turbid (muddy/silty)
- ☐ Green
- ☐ Rusty-Red
- ✔ Milky
- ☐ Other (foam, dyes, chemicals)

---

### Aquatic Plants in Stream:

- Floating: (e.g. duck weed)  ☐ Absent ☑ In Spots  ☐ Everywhere
- Attached: (e.g. water lily)  ☐ Absent ☑ In Spots  ☐ Everywhere

---

### Algae in Stream:

- Floating: (e.g. planktonic)  ✔ Absent ☐ In Spots  ☐ Everywhere
- Attached: (e.g. filamentous)  ☐ Absent  ☑ In Spots  ☐ Everywhere

---

### Canopy Cover:
Mark approximate percentage of stream covered by tree canopy.

- ☑ >75% covered  ☐ 75-50% covered  ☐ 50%-25% covered  ☐ < 25% covered

---

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

---

Developed By: CT-NRCS

January 2008
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th>Riparian Vegetation</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
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<tr>
<td>Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
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<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>Low</td>
<td>Low</td>
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<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

Surrounding Land Use: Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt;¼ Mile from stream</th>
<th>&gt;¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Rural Residential</td>
<td>□/Agricultural</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>□ Suburban Residential</td>
<td>□ Forested</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>□ Urban Residential</td>
<td>□ Recreational</td>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>□ Industrial</td>
<td>□ Other</td>
<td>□ Industrial</td>
</tr>
<tr>
<td>□ Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

Areas of Concern Checklist: Marking “Yes” to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

| Is there evidence of either stream bank erosion or streambed instability within the reach? | □ Yes | □ No |
| Are there any dams or any other possible natural or artificial barriers to fish migration? | □ Yes | □ No |
| Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: |
| Is there any portion of the channel that has been modified (not culvert) (channelled, piped, rip rap)? | □ Yes | □ No |
| Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? | □ Yes | □ No |
| Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? | □ Yes | □ No |
| Is there any portion of the reach that has a change in water conditions? | □ Yes | □ No |

Notes: Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
Completed Stream Assessment Forms
Wilmot Brook
50 Brookside Ave New Haven
CT - NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream:  
Reach Code:  
Designated Stream Type:  
Site ID:  

Date: 7-23-15  
Assessed By: Bhatia

Degradation of the 35' Zone Adj. to Stream

Degraded Buffer

Location / Extent of Degraded Buffer: 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Mark where the degraded buffer occurs.

- Meander Bend
- Straight Section
- Steep Slope/Valley Wall
- Other
- Left Bank
- Right Bank

Estimate length of degraded buffer:  

ft.

ft.

Type of Degradation:

Left Bank:  
- Minimal Vegetation
- Minimal Width
- Invasive Plants
- Other

Right Bank:  
- Minimal Vegetation
- Minimal Width
- Invasive Plants
- Other

Dominant Land Cover

<table>
<thead>
<tr>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

Left Bank:  
- Rural Residential
- Suburban Residential
- Urban Residential
- Industrial
- Agricultural
- Commercial
- Forested
- Recreational

Right Bank:  
- Rural Residential
- Suburban Residential
- Urban Residential
- Industrial
- Agricultural
- Commercial
- Forested
- Recreational

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.

Left Bank:  
- < 15 ft.
- 15 - 35 ft.
- 35 - 50 ft.
- 50 - 100 ft.
- > 100 ft

Right Bank:  
- < 15 ft.
- 15 - 35 ft.
- 35 - 50 ft.
- 50 - 100 ft.
- > 100 ft

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Developed By: CT-NRCS  
January 2008
## CT – NRCS
Stream Assessment Worksheet

### Modified Channel

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7-23-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td></td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

### Make All Observations Facing Downstream

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

<table>
<thead>
<tr>
<th>Mark where channel modification occurs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Meander Bend</td>
</tr>
<tr>
<td>☒ Straight Section</td>
</tr>
<tr>
<td>☐ Steep Slope/Valley Wall</td>
</tr>
<tr>
<td>☐ Other</td>
</tr>
</tbody>
</table>

**Estimate length of channel modification:** 750 ft.

**Estimate height of bank modification:** 5 ft.

### Type of Manipulation:

| ☐ Channelization | ☒ Bank Armoring | ☐ Concrete Channel | ☐ Other |

### Extent of Manipulation:

| ☒ Right Bank | ☐ Left Bank | ☐ Channel Bottom |

### Channel / Bank Materials:

| ☐ Natural | ☒ Rip Rap | ☒ Concrete | ☐ Gabions | ☐ Metal |

### Immediately Adjacent Land Use:

| ☐ Rural Residential | ☐ Urban Residential | ☐ Commercial | ☐ Forested |
| ☐ Suburban Residential | ☐ Industrial | ☐ Agricultural | ☐ Recreational |

### Existing Width of Riparian Vegetation:

| ☒ < 15 ft. | ☐ 15 – 35 ft. | ☐ 35 – 50 ft. | ☐ 50 – 100 ft | ☐ > 100 ft |

| Is there a change in the average width of the active channel? | ☐ Yes / Estimate Width: 5 ft | ☒ No |
| Is there evidence of sediment deposition in the channel? | ☐ Yes | ☒ No |
| Is the channel connected to a floodplain? | ☐ Yes | ☒ No |

### Notes:
Use the space provided to record important observations otherwise not captures on this sheet.
# CT – NRCS
## Stream Assessment Worksheet

**Survey Basin Code:**

**Name of Stream:** Wilmot

**Reach Code:** WUB-1

**Designated Stream Type:**

**Site ID:**

## Make All Observations Facing Downstream

**Location of Outfall:**
- Right Bank
- Left Bank

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

## Outfall Type:
- [x] Pipe
- [ ] Leak Off
- [ ] Channel

## Flow:
- [x] None
- [x] Trickle
- [ ] Moderate
- [ ] Substantial

## Odor:
- [x] None
- [ ] Sewage
- [ ] Rancid / Scur
- [ ] Sulfur (rotten eggs)

## Deposits / Stains:
- [x] None
- [ ] Sediment Delta
- [ ] Oily Stain
- [ ] Black

## Benthic Growth:
- [x] None
- [ ] Brown
- [ ] Green
- [ ] Orange

---

**Pipe Data:** Provide all relevant data.

**Pipe Material:**
- [x] Concrete
- [ ] Corrugated Metal
- [ ] Plastic
- [ ] Other

**Contributing Source(s):**
- [x] Road
- [ ] Parking Lot
- [ ] Other
- [ ] Unknown

**Pipe Outlet:**
- [ ] Perched 5.2 ft.
- [x] Ramped
- [x] At Stream Level

**Pipe Size:** Diameter: 12" - 18"

**# of Pipes:**
- [ ] 1
- [ ] 2
- [ ] 3 + 7

---

**Leak-Off Data:** Provide all relevant data.

**Leak-Off Swale:**
- [ ] Concrete
- [ ] Asphalt
- [ ] Stone
- [ ] Earthen

**Contributing Source(s):**
- [ ] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [ ] Other

**Length of Swale:** ft.

**Width of Swale:** ft.

---

**Channel Data:** Provide all relevant data.

**Channel Material:**
- [ ] Concrete
- [ ] Asphalt
- [ ] Stone
- [ ] Earthen

**Contributing Source(s):**
- [ ] Road
- [ ] Parking Lot
- [ ] Recreational Field
- [ ] Other
- [ ] Unknown

**Channel Length:** ft.

**Channel Width:** ft.

---

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
## CT-NRCS 
### Stream Assessment Sheet

#### Reach Level Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s):</th>
<th>Assessed By:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7-28</td>
<td>Bit AP TA</td>
</tr>
<tr>
<td>Name of Stream:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Walters</td>
<td></td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>W18-1</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

Was the entire reach of stream surveyed? [ ] Yes [ ] No, Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

- [ ] Step-Pool
- [ ] Pool-Riffle
- [ ] Run
- [ ] Glide
- [ ] Manipulated Channel (piped, lined, etc.)

- **Active Channel Width:** 6'
- **Glide Depth:**
  - **Riffle Depth:** 6'
  - **Step Height:**
  - **Pool Depth:** 1.5'
  - **Bank Height (Right Bank):** 6'
  - **Run Depth:** 1.5'
  - **Bank Height (Left Bank):** 6'

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

- [ ] Silt or Clay <5% 5-25% 25-50% 50-75% >75%
- [ ] Sand <5% 5-25% 25-50% 50-75% >75%
- [ ] Gravel (0.1-2 inches) <5% 5-25% 25-50% 50-75% >75%
- [ ] Cobble (2-10 inches) <5% 5-25% 25-50% 50-75% >75%
- [ ] Boulder (>10 inches) <5% 5-25% 25-50% 50-75% >75%
- [ ] Bedrock

**Describe Water Conditions:** Mark all that apply.

- [ ] Clear
- [ ] Stained (“iced tea”)
- [ ] Turbid (muddy / silty)
- [ ] Green
- [ ] Rusty-Red
- [ ] Milky
- [ ] Odors
- [ ] Other (foam, dyes, chemicals)

**Aquatic Plants in Stream:**

- Floating: (e.g. duck weed) [ ] Absent [ ] In Spots [ ] Everywhere
- Attached: (e.g. water lily) [ ] Absent [ ] In Spots [ ] Everywhere

**Algae in Stream:**

- Floating: (e.g. planktonic) [ ] Absent [ ] In Spots [ ] Everywhere
- Attached: (e.g. filamentous) [ ] Absent [ ] In Spots [ ] Everywhere

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

- [ ] >75% covered
- [ ] 75-50% covered
- [ ] 50-25% covered
- [ ] <25% covered

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>🟦 Low</td>
<td>🟦 Low</td>
<td>🟦 Moderate</td>
<td>🟦 Moderate</td>
<td>🟦 High</td>
<td>🟦 High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>🟦 Low</td>
<td>🟦 Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ High</td>
<td>□ High</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>🟦 Forested</td>
<td>🟦 Forested</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>🟦 Forested</td>
<td>🟦 Forested</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>□ Recreational</td>
<td>□ Recreational</td>
</tr>
<tr>
<td>Industrial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete an area of concern sheet.

Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes □ No
Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 4
Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? □ Yes □ No
Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? □ Yes □ No
Is there any portion of the reach that has a change in water conditions? □ Yes □ No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
## CT-NRCS
### Stream Assessment Sheet

**Survey Basin Code:**  
**Name of Stream:** WILMOT  
**Reach Code:** W  
**Designated Stream Type:**  

**Date(s):** 7-16-15  
**Assessed By:** BH AB  

### Reach Level Assessment

Was the entire reach of stream surveyed?  
☑ Yes  
☐ No. Which section(s) were not surveyed? Why?

### Channel Morphology

Mark the predominate condition(s), and indicate the average measurements.

- ☐ Step-Pool  
- ☑ Pool-Riffle  
- ☐ Run  
- ☐ Glide  
- ☑ Manipulated Channel (piped, lined, etc.)

<table>
<thead>
<tr>
<th>Active Channel Width:</th>
<th>Glide Depth:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ 4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>riffle Depth:</th>
<th>Step Height:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pool Depth:</th>
<th>Bank Height (Right Bank):</th>
</tr>
</thead>
<tbody>
<tr>
<td>2' AVE (UP TO 2')</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Run Depth:</th>
<th>Bank Height (Left Bank):</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'</td>
<td></td>
</tr>
</tbody>
</table>

### Substrate Composition

Mark approximate percentages for each substrate type observed.

- ☐ Silt or Clay  
- ☐ Sand  
- ☑ Gravel (0.1-2 inches)  
- ☐ Cobble (2-10 inches)  
- ☐ Boulder (>10 inches)  
- ☑ Bedrock

<table>
<thead>
<tr>
<th>Silt or Clay</th>
<th>☐ &lt;5%</th>
<th>☐ 5-25%</th>
<th>☐ 25-50%</th>
<th>☐ 50-75%</th>
<th>☐ &gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>☐ &lt;5%</td>
<td>☐ 5-25%</td>
<td>☐ 25-50%</td>
<td>☐ 50-75%</td>
<td>☐ &gt;75%</td>
</tr>
<tr>
<td>Gravel</td>
<td>☑ &lt;5%</td>
<td>☐ 5-25%</td>
<td>☐ 25-50%</td>
<td>☑ 50-75%</td>
<td>☐ &gt;75%</td>
</tr>
<tr>
<td>Cobble</td>
<td>☐ &lt;5%</td>
<td>☐ 5-25%</td>
<td>☑ 25-50%</td>
<td>☐ 50-75%</td>
<td>☐ &gt;75%</td>
</tr>
<tr>
<td>Boulder</td>
<td>☑ &lt;5%</td>
<td>☐ 5-25%</td>
<td>☐ 25-50%</td>
<td>☐ 50-75%</td>
<td>☑ &gt;75%</td>
</tr>
<tr>
<td>Bedrock</td>
<td>☑ &lt;5%</td>
<td>☐ 5-25%</td>
<td>☐ 25-50%</td>
<td>☐ 50-75%</td>
<td>☑ &gt;75%</td>
</tr>
</tbody>
</table>

### Describe Water Conditions

Mark all that apply.

- ☑ Clear  
- ☐ Stained ("iced tea")  
- ☑ Turbid (muddy / silty)  
- ☑ Green  
- ☐ Rusty-Red  
- ☑ Milky  
- ☑ Odors  
- ☐ Other (foam, dyes, chemicals)

### Aquatic Plants in Stream

- ☑ Floating: (e.g. duck weed)  
- ☐ Absent  
- ☐ In Spots  
- ☑ Everywhere

- ☑ Attached: (e.g. water lily)  
- ☐ Absent  
- ☐ In Spots  
- ☑ Everywhere

### Algae in Stream

- ☑ Floating: (e.g. planktonic)  
- ☑ Absent  
- ☐ In Spots  
- ☑ Everywhere

- ☑ Attached: (e.g. filamentous)  
- ☑ Absent  
- ☐ In Spots  
- ☑ Everywhere

### Canopy Cover

Mark approximate percentage of stream covered by tree canopy.

- ☑ >75% covered  
- ☐ 75-50% covered  
- ☐ 50%-25% covered  
- ☐ <25% covered

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
### CT-NRCS
#### Stream Assessment Sheet

**Reach Level Assessment**

<table>
<thead>
<tr>
<th>Riparian Vegetation:</th>
<th>Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Left Bank</td>
</tr>
<tr>
<td>Turf Grass</td>
<td>☐ Low</td>
</tr>
<tr>
<td>Grass</td>
<td>☐ Low</td>
</tr>
<tr>
<td>Shrubs</td>
<td>☑ Low</td>
</tr>
<tr>
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</tr>
<tr>
<td>Coniferous Trees</td>
<td>☐ Low</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Rural Residential</td>
<td>☐ Agricultural</td>
<td>☐ Rural Residential</td>
</tr>
<tr>
<td>☑ Suburban Residential</td>
<td>☑ Forested</td>
<td>☑ Suburban Residential</td>
</tr>
<tr>
<td>☐ Urban Residential</td>
<td>☑ Recreational</td>
<td>☐ Urban Residential</td>
</tr>
<tr>
<td>☐ Industrial</td>
<td>☐ Other</td>
<td>☐ Industrial</td>
</tr>
<tr>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
<td>☐ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach?  ☐ Yes  ☑ No
- Are there any dams or any other possible natural or artificial barriers to fish migration?  ☐ Yes  ☑ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: 16
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, riprap)?  ☑ Yes  ☐ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?  ☑ Yes  ☐ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?  ☑ Yes  ☐ No
- Is there any portion of the reach that has a change in water conditions?  ☑ Yes  ☐ No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code: ___________________________  Date: ____________
Name of Stream: ____________________________ Assessed By: ____________
Reach Code: ________________________________
Designated Stream Type: ________________________
Site ID: __________________________

Make All Observations Facing **Downstream**

Location of Outfall: ☑️ Right Bank ☑️ Left Bank
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

10 Total 6" to 2’, both sides

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>☑️ Pipe</th>
<th>☑️ Leak Off</th>
<th>☑️ Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>☑️ None</td>
<td>☑️ Trickle</td>
<td>☑️ Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>☑️ None</td>
<td>☑️ Sewage</td>
<td>☑️ Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>☑️ None</td>
<td>☑️ Sediment Delta</td>
<td>☑️ Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>☑️ None</td>
<td>☑️ Brown</td>
<td>☑️ Green</td>
</tr>
</tbody>
</table>

Pipe Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>☑️ Concrete</th>
<th>☑️ Corrugated Metal</th>
<th>☑️ Plastic</th>
<th>☑️ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☑️ Road</td>
<td>☑️ Parking Lot</td>
<td>☑️ Other</td>
<td>☑️ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>☑️ Perched 1 - 3 ft.</td>
<td>☑️ Ramped</td>
<td>☑️ At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size: Diameter: 6&quot; - 2 ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>☑️ 1</td>
<td>☑️ 2</td>
<td>☑️ 3 +</td>
<td>16</td>
</tr>
</tbody>
</table>

Leak-Off Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>☑️ Concrete</th>
<th>☑️ Asphalt</th>
<th>☑️ Stone</th>
<th>☑️ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☑️ Road</td>
<td>☑️ Parking Lot</td>
<td>☑️ Recreational Field</td>
<td>☑️ Other</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Channel Data: Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>☑️ Concrete</th>
<th>☑️ Asphalt</th>
<th>☑️ Stone</th>
<th>☑️ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☑️ Road</td>
<td>☑️ Parking Lot</td>
<td>☑️ Recreational Field</td>
<td>☑️ Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

SEE MAP FOR DETAILS

Developed By: CT-NRCS
January 2008
## CT – NRCS

### Stream Assessment Worksheet

**Modified Channel**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: <strong>7-16-15</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: <strong>RB BH</strong></td>
</tr>
<tr>
<td>Reach Code:</td>
<td>WLB2</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

---

### Make All Observations Facing **Downstream**

#### Location / Extent of Modified Channel:
Mark and label the location of the modified channel on the **map** and provide a brief description of the location of the channel section relative to roads or other landmarks.

Mark where channel modification occurs:

- [ ] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Estimate length of channel modification:** 0.95 mile

**Estimate height of bank modification:** 5 ft.

#### Type of Manipulation:

- [ ] Channelization
- [ ] Bank Armoring
- [ ] Concrete Channel
- [ ] Other

#### Extent of Manipulation:

- [ ] Right Bank
- [ ] Left Bank
- [ ] Channel Bottom

#### Channel / Bank Materials:

- [ ] Natural
- [ ] Rip Rap
- [ ] Concrete
- [ ] Gabions
- [ ] Metal

---

#### Immediately Adjacent Land Use:
Mark the land use(s) immediately adjacent to the modified section.

- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

---

#### Existing Width of Riparian Vegetation:
Mark the average width of riparian vegetation to the modified section.

- [ ] < 15 ft.
- [ ] 15 – 35 ft.
- [ ] 35 – 50 ft.
- [ ] 50 – 100 ft.
- [ ] > 100 ft.

---

**Is there a change in the average width of the active channel?**
- [ ] Yes / Estimate Width: **15 ft.**
- [ ] No

**Is there evidence of sediment deposition in the channel?**
- [ ] Yes
- [ ] No

**Is the channel connected to a floodplain?**
- [ ] Yes
- [ ] No

---

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code: 
Name of Stream: WILBRO
Reach Code: WLB - 2
Designated Stream Type: 
Site ID: 

Make All Observations Facing Downstream

Location / Extent of Degraded Buffer: 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

Mark where the degraded buffer occurs.
- Meander Bend
- Straight Section
- Left Bank
- Right Bank

Estimate length of degraded buffer: ft.

Type of Degradation:
- Left Bank: Minimal Vegetation, Minimal Width
- Right Bank: Minimal Vegetation, Minimal Width

Dominate Land Cover

<table>
<thead>
<tr>
<th></th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Right Bank</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

- Left Bank: Rural Residential, Suburban Residential
- Right Bank: Rural Residential, Suburban Residential

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.


Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Developed By: CT-NRCS
January 2008
**CT-NRCS**

**Stream Assessment Sheet**

**Reach Level Assessment**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s): 7-16-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: AB BU</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

Was the entire reach of stream surveyed? ☑ Yes ☐ No. Which section(s) were not surveyed? Why?

**Channel Morphology:** Mark the predominate condition(s), and indicate the average measurements.

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Step-Pool</td>
<td>Pool-Riffle</td>
<td>Run</td>
<td>Glide</td>
<td>Manipulated Channel</td>
</tr>
<tr>
<td>Active Channel Width:</td>
<td>7'</td>
<td>Glide Depth:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>riffle Depth:</td>
<td>1'</td>
<td>Step Height:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pool Depth:</td>
<td>1'</td>
<td>Bank Height (Right Bank):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run Depth:</td>
<td></td>
<td>Bank Height (Left Bank):</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Substrate Composition:** Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th></th>
<th>&lt;5%</th>
<th>5-25%</th>
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<th>50-75%</th>
<th>&gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>Gravel (0.1-2 inches)</td>
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<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
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</tbody>
</table>

**Describe Water Conditions:** Mark all that apply.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear</td>
<td>Stained (&quot;iced tea&quot;)</td>
<td>Turbid (muddy / silty)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>Rusty-Red</td>
<td>Milky</td>
<td></td>
</tr>
</tbody>
</table>

**Aquatic Plants in Stream:**

<table>
<thead>
<tr>
<th></th>
<th>Absent</th>
<th>In Spots</th>
<th>Everywhere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. duck weed)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attached: (e.g. water lily)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Algae in Stream:**

<table>
<thead>
<tr>
<th></th>
<th>Absent</th>
<th>In Spots</th>
<th>Everywhere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating: (e.g. planktonic)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attached: (e.g. filamentous)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Canopy Cover:** Mark approximate percentage of stream covered by tree canopy.

<table>
<thead>
<tr>
<th></th>
<th>75% covered</th>
<th>75-50% covered</th>
<th>50-25% covered</th>
<th>&lt;25% covered</th>
</tr>
</thead>
</table>

**Note:** Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
## CT-NRCS
### Stream Assessment Sheet
#### Reach Level Assessment

<table>
<thead>
<tr>
<th>Riparian Vegetation: Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Turf Grass</td>
</tr>
<tr>
<td>Grass</td>
</tr>
<tr>
<td>Shrubs</td>
</tr>
<tr>
<td>Deciduous Trees</td>
</tr>
<tr>
<td>Coniferous Trees</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Surrounding Land Use: Mark the dominate land use(s) for each &quot;zone&quot;, if known or observed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediately adjacent to stream</td>
</tr>
<tr>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>□ Industrial</td>
</tr>
<tr>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Areas of Concern Checklist: Marking &quot;Yes&quot; to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there evidence of either stream bank erosion or streambed instability within the reach?</td>
</tr>
<tr>
<td>Are there any dams or any other possible natural or artificial barriers to fish migration?</td>
</tr>
<tr>
<td>Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed:</td>
</tr>
<tr>
<td>Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)?</td>
</tr>
<tr>
<td>Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent?</td>
</tr>
<tr>
<td>Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)?</td>
</tr>
<tr>
<td>Is there any portion of the reach that has a change in water conditions?</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.
CT - NRCS
Stream Assessment Worksheet
Modified Channel

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7-14-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: BA</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

75% of reach mostly behind residential

**Mark where channel modification occurs:**
- [ ] Meander Bend
- [x] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Estimate length of channel modification:** ft. 50 - 75 ft

**Estimate height of bank modification:** 4 ft

**Type of Manipulation:**
- [x] Channelization
- [ ] Bank Armoring
- [ ] Concrete Channel
- [ ] Other

**Extent of Manipulation:**
- [ ] Right Bank
- [x] Left Bank
- [ ] Channel Bottom

**Channel / Bank Materials:**
- [x] Natural
- [ ] Rip Rap
- [ ] Concrete
- [ ] Gabions
- [ ] Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [x] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.
- [x] < 15 ft
- [ ] 15 - 35 ft
- [ ] 35 - 50 ft
- [ ] 50 - 100 ft
- [ ] > 100 ft

**Is there a change in the average width of the active channel?**
- [ ] Yes / Estimate Width: ft
- [ ] No

**Is there evidence of sediment deposition in the channel?**
- [ ] Yes
- [x] No

**Is the channel connected to a floodplain?**
- [ ] Yes
- [x] No

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

---

Developed By: CT-NRCS
January 2008
**CT - NRCS**

**Stream Assessment Worksheet**

**Storm Water Outfall**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>7/16/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>ASHA + BRIAN</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td>WLP-3</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

Location of Outfall: □ Right Bank □ Left Bank Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

12 Outfalls

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>□ Pipe</th>
<th>□ Leak Off</th>
<th>□ Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>□ None</td>
<td>□ Trickle</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>□ None</td>
<td>□ Sewage</td>
<td>□ Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains</td>
<td>□ None</td>
<td>□ Sediment Delta</td>
<td>□ Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth</td>
<td>□ None</td>
<td>□ Brown</td>
<td>□ Green</td>
</tr>
</tbody>
</table>

**Pipe Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>□ Concrete</th>
<th>□ Corrugated Metal</th>
<th>□ Plastic</th>
<th>□ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Other</td>
<td>□ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>□ Perched... ft.</td>
<td>□ Ramped</td>
<td>□ At Stream Level</td>
<td></td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 12-24 ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>□ 1</td>
<td>□ 2</td>
<td>□ 3+</td>
<td>12</td>
</tr>
</tbody>
</table>

**Leak-Off Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Recreational Field</td>
<td>□ Other</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Channel Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>□ Concrete</th>
<th>□ Asphalt</th>
<th>□ Stone</th>
<th>□ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>□ Road</td>
<td>□ Parking Lot</td>
<td>□ Recreational Field</td>
<td>□ Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Use the space provided to record important observations otherwise not captures on this sheet.
CT - NRCS
Stream Assessment Worksheet

Fish Barrier

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7-18-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>WLMST</td>
</tr>
<tr>
<td>Reach Code:</td>
<td>WLB-3</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

*End of Reach, at Benham St*

**Type of Barrier:** Mark the type of fish barrier.
- [ ] Dam
- [ ] Culvert
- [ ] Velocity Barrier
- [ ] Other

**Dam Data:** Provide all relevant data.
- Height of Dam: 1/2 ft
- Length of Spillway: 12 ft
- Shape of Spillway: [ ] Straight  [x] Crescent
- Materials: [ ] Stone  [x] Concrete  [ ] Stone & Concrete  [ ] Timber-Crib  [ ] Other
- Is there other infrastructure associated with the Dam? [ ] No  [x] Yes (If yes mark the type below)
  - [ ] Factory
  - [ ] Hydro Facility
  - [ ] Mill
  - [ ] Residence
  - [ ] Other

**Culvert Data:** Provide all relevant data.
- Type of Culvert:  [ ] Box  [ ] Pipe  [ ] Pipe-Arch  [ ] Arch
- Culvert Material:  [ ] Concrete  [ ] Corrugated Metal  [ ] Plastic  [ ] Stone
- Culvert Outlet:  [ ] Perched:...... ft  [ ] Ramped  [ ] Submerged
- Culvert Size:  Diameter: ft  Height: ft  Width: ft
- # of Culverts:  Culvert Length: ft

**Velocity Barrier Data:** Provide all relevant data.
- Nature of Barrier:  [ ] Grade Control Sill  [ ] Concrete Apron  [ ] Channel Cross-Section  [ ] Other
- Length of Barrier: ft  Approx. Vertical Rise: ft

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
CT - NRCS
Stream Assessment Worksheet

Survey Basin Code: [Blank]  Date: 7-16-15
Name of Stream: WILMOT  BRISCOE  Assessed By: [Blank]
Reach Code: WLB - 3  Site ID: [Blank]

Designated Stream Type: [Blank]

Make All Observations Facing **Downstream**

Location / Extent of Degraded Buffer: 1) Mark and label the location of the degraded buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

50-75' of Reach - All Areas Near Res. Sheets

Mark where the degraded buffer occurs.

- Meander Bend  Straight Section  Steep Slope/Valley Wall  Other
- Left Bank  Right Bank

Estimate length of degraded buffer: ft.

Type of Degradation:

Left Bank:  Minimal Vegetation  Minimal Width  Invasive Plants  Other
Right Bank:  Minimal Vegetation  Minimal Width  Invasive Plants  Other

Dominant Land Cover

<table>
<thead>
<tr>
<th>Land Cover</th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf</th>
<th>Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>Right Bank</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

Left Bank:  Rural Residential  Urban Residential  Commercial  Forested
Suburban Residential  Industrial  Agricultural  Recreational
Right Bank: Rural Residential  Urban Residential  Commercial  Forested
Suburban Residential  Industrial  Agricultural  Recreational

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.

Left Bank:  <15 ft.  15 - 35 ft.  35 - 50 ft.  50 - 100 ft  >100 ft
Right Bank: <15 ft.  15 - 35 ft.  35 - 50 ft.  50 - 100 ft  >100 ft

Notes: Use the space provided to record important observations otherwise not captured on this sheet.
CT – NRCS
Stream Assessment Worksheet

Survey Basin Code:  
Name of Stream: 
Reach Code: 
Designated Stream Type: 
Site ID: 

Date: 
Assessed By: 

Make All Observations Facing **Downstream**

**Location of Bank Erosion:** 1) Mark and label the location of the erosion on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

**Mark where erosion is occurring:**
- [ ] Meander Bend
- [ ] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Site Dimensions:** Indicate all applicable measurements associated with the erosion site

<table>
<thead>
<tr>
<th>Length:</th>
<th>Left Bank:</th>
<th>ft.</th>
<th>Right Bank:</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank Height:</td>
<td>Left Bank:</td>
<td>ft.</td>
<td>Right Bank:</td>
<td>ft.</td>
</tr>
</tbody>
</table>

**What is the proximity of the erosion site to infrastructure (e.g. road, bridge, building, etc.)?**
- [ ] < 15 ft.
- [ ] 15 - 30 ft.
- [ ] 30 - 45 ft.
- [ ] 45 - 60 ft.
- [ ] 60 - 100 ft.
- [ ] > 100 ft.

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the erosion site.
- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [ ] Recreational

**Land Ownership:** Mark land ownership at the location of the erosion site.
- [ ] Public
- [ ] Private
- [ ] Unknown

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation at the erosion site.
- [ ] < 15 ft.
- [ ] 15 – 35 ft.
- [ ] 35 – 50 ft.
- [ ] 50 – 100 ft.
- [ ] > 100 ft.

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
CT-NRCS
Stream Assessment Sheet

Reach Level Assessment

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date(s): 7-21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: B. Tylor</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
</tbody>
</table>

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed? ☑ Yes ☐ No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Step-Pool</th>
<th>Pool-Riffle</th>
<th>Run</th>
<th>Glide</th>
<th>Manipulated Channel (piped, lined, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Active Channel Width: 10’

Riffle Depth: 3’

Pool Depth: 1’

Run Depth: Bank Height (Right Bank): 1’ Sticker

Bank Height (Left Bank): 1’ Shallow

Substrate Composition: Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Silt or Clay</th>
<th>&lt;5%</th>
<th>5-25%</th>
<th>25-50%</th>
<th>50-75%</th>
<th>&gt;75%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td></td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>&lt;5%</td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
</tr>
<tr>
<td>Bedrock</td>
<td></td>
<td>5-25%</td>
<td>25-50%</td>
<td>50-75%</td>
<td>&gt;75%</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

☑ Clear  ☐ Stained ("iced tea")  ☑ Turbid (muddy / silty)
* ☐ Green  ☐ Rusty-Red  ☐ Milky
* ☐ Odors  ☐ Other (foam, dyes, chemicals)

Aquatic Plants in Stream:

Floating: (e.g. duck weed) ☑ Absent ☑ In Spots ☑ Everywhere
Attached: (e.g. water lily) ☑ Absent ☑ In Spots ☑ Everywhere

Algae in Stream:

Floating: (e.g. planktonic) ☑ Absent ☑ In Spots ☑ Everywhere
Attached: (e.g. filamentous) ☑ Absent ☑ In Spots ☑ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

☐ >75% covered ☑ 75-50% covered ☐ 50%-25% covered ☑ < 25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
CT-NRCS  
Stream Assessment Sheet

Reach Level Assessment

**Riparian Vegetation:** Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th>Riparian Vegetation</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ High</td>
<td>□ Low</td>
<td>□ High</td>
</tr>
<tr>
<td>Grass</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>□ Low</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
</tr>
</tbody>
</table>

**Surrounding Land Use:** Mark the dominate land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>□ Residential</td>
<td>□ Residential</td>
</tr>
<tr>
<td>Agricultural</td>
<td>□ Agricultural</td>
<td>□ Agricultural</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>□ Suburban Residential</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>Forested</td>
<td>□ Forested</td>
<td>□ Forested</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>□ Urban Residential</td>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>Recreational</td>
<td>□ Recreational</td>
<td>□ Recreational</td>
</tr>
<tr>
<td>Industrial</td>
<td>□ Industrial</td>
<td>□ Industrial</td>
</tr>
<tr>
<td>Other</td>
<td>□ Other</td>
<td>□ Other</td>
</tr>
<tr>
<td>Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

**Areas of Concern Checklist:** Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? □ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: □ Yes □ No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? □ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cars) appliances, construction waste)? □ Yes □ No
- Is there any portion of the reach that has a change in water conditions? □ Yes □ No

**Notes:** Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

Developed By CT-NRCS  
January 2008
CT - NRCS
Stream Assessment Worksheet

Fish Barrier

Survey Basin Code: 
Name of Stream: Wilmot
Reach Code: WLG-4
Designated Stream Type: 
Site ID: 

Date: 7-21
Assessed By: TA

Make All Observations Facing Downstream

Location of Barrier: Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

Type of Barrier: Mark the type of fish barrier.
□ Dam
□ Culvert
□ Velocity Barrier
□ Other

Dam Data: Provide all relevant data.
Height of Dam: 40 ft
Length of Spillway: 10 ft
Shape of Spillway: □ Straight
□ Crescent
Materials: □ Stone
□ Concrete
□ Stone & Concrete
□ Timber-Crib
□ Other

Is there other infrastructure associated with the Dam? □ No
□ Yes (If yes mark the type below)
□ Factory
□ Hydro Facility
□ Mill
□ Residence
□ Other

Culvert Data: Provide all relevant data.
Type of Culvert: □ Box
□ Pipe
□ Pipe-Arch
□ Arch
Culvert Material: □ Concrete
□ Corrugated Metal
□ Plastic
□ Stone

Culvert Outlet: □ Perched: 5 ft
□ Ramped
□ Submerged
Culvert Size: Diameter: 3 ft
Height: 4 ft
Width: 4 ft

# of Culverts: 1
Culvert Length: 40 ft

Velocity Barrier Data: Provide all relevant data.
Nature of Barrier: □ Grade Control Sill
□ Concrete Apron
□ Channel Cross-Section
□ Other
Length of Barrier: 40 ft
Approx. Vertical Rise: 4 ft

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Developed By: CT-NRCS
January 2008
CT – NRCS  
Stream Assessment Worksheet  

**Trash / Debris**

Survey Basin Code:  
Name of Stream: **W1Cm**  
Reach Code: **W1B4**  
Designated Stream Type:  
Site ID:  

Date: **7-21**  
Assessed By: **B1T TA**

---

Make All Observations Facing **Downstream**

Location / Extent of Trash or Debris: Mark and label the location of the trash or debris on the map and provide a brief description of the location relative to roads or other landmarks.

- **Trash through**

- **Within Stream**

- **Riparian Area:**  
  - **Left Bank**
  - **Right Bank**

<table>
<thead>
<tr>
<th>Type:</th>
<th>Residential</th>
<th>Commercial</th>
<th>Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>Plastic</td>
<td>Tires</td>
<td>Appliances</td>
</tr>
<tr>
<td></td>
<td>Paper</td>
<td>Metal</td>
<td>Automotive</td>
</tr>
<tr>
<td></td>
<td>Yard Waste</td>
<td>Construction</td>
<td>Medical</td>
</tr>
<tr>
<td>Source:</td>
<td>Unknown</td>
<td>Flooding</td>
<td>Illegal Dumping</td>
</tr>
</tbody>
</table>

- **Local Outfall**

- **Land Ownership:**  
  - **Private**
  - **Public**
  - **Unknown**

**Notes:** Use the space provided to record important observations otherwise not captures on this sheet.

- Mostly old tires spread throughout.
- 2 cars
- 6 tires
CT – NRCS
Stream Assessment Worksheet

Storm Water Outfall

Survey Basin Code:  
Name of Stream:  
Reach Code:  
Designated Stream Type:  
Site ID:  

Date: 7.21  
Assessed By:  

Make All Observations Facing **Downstream**

Location of Outfall:  □ Right Bank  □ Left Bank  
Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

Outfall Type:  □ Pipe  □ Leak Off  □ Channel  
Flow:  □ None  □ Trickle  □ Moderate  □ Substantial  
Odor:  □ None  □ Sewage  □ Rancid / Sour  □ Sulfur (rotten eggs)  
Deposits / Stains:  □ None  □ Sediment Delta  □ Oily Stain  □ Black  
Benthic Growth:  □ None  □ Brown  □ Green  □ Orange  

Pipe Data: Provide all relevant data.

Pipe Material:  □ Concrete  □ Corrugated Metal  □ Plastic  □ Unknown  
Contributing Source(s):  □ Road  □ Parking Lot  □ Other  □ Other  
Pipe Outlet:  □ Perched......  □ Ramped  □ At Stream Level  
Pipe Size:  □ Diameter: \( \frac{1}{2} \text{ ft.} \)  
□ 2  □ 3 +  

Leak-Off Data: Provide all relevant data.

Leak-Off Swale:  □ Concrete  □ Asphalt  □ Stone  □ Earthen  
Contributing Source (s):  □ Road  □ Parking Lot  □ Recreational Field  □ Other  
Length of Swale:  □ ft.  
Width of Swale:  □ ft.  

Channel Data: Provide all relevant data.

Channel Material:  □ Concrete  □ Asphalt  □ Stone  □ Earthen  
Contributing Source (s):  □ Road  □ Parking Lot  □ Recreational Field  □ Other  □ Unknown  
Channel Length:  □ ft.  
Channel Width:  □ ft.  

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

Developed By CT-NRCS  
January 2008
CT – NRCS
Stream Assessment Worksheet

Modified Channel

Survey Basin Code: ____________________________ Date: 1-21
Name of Stream: ____________________________ Assessed By: BH TA
Reach Code: ____________________________ Site ID:
Designated Stream Type: ____________________________

Make All Observations Facing **Downstream**

Location / Extent of Modified Channel: Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

Mark where channel modification occurs:
- [ ] Meander Bend
- [X] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

Estimate length of channel modification: 150 ft.

Estimate height of bank modification: ______ ft.

Type of Manipulation:
- [X] Channelization
- [ ] Bank Armoring
- [ ] Concrete Channel
- [ ] Other

Extent of Manipulation:
- [ ] Right Bank
- [ ] Left Bank
- [ ] Channel Bottom

Channel / Bank Materials:
- [ ] Natural
- [ ] Rip Rap
- [ ] Concrete
- [ ] Gabions
- [ ] Metal

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.
- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [X] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [X] Agricultural
- [ ] Recreational

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.
- [ ] < 15 ft.
- [ ] 15 – 35 ft.
- [ ] 35 – 50 ft.
- [ ] 50 – 100 ft
- [ ] > 100 ft

Is there a change in the average width of the active channel?  
- [X] Yes / Estimate Width: 3 ft
- [ ] No

Is there evidence of sediment deposition in the channel?  
- [ ] Yes
- [X] No

Is the channel connected to a floodplain?  
- [X] Yes
- [ ] No

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Developed By CT-NRCS
January 2006

Diagram of modified channel with annotations.
CT-NRCS
Stream Assessment Sheet
Reach Level Assessment

Survey Basin Code: #223158
Name of Stream: WLMG
Reach Code: WLM
Designated Stream Type:

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed?  □ Yes  X No, Which section(s) were not surveyed? Why?

Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step-Pool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pool-Ripple</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Run (Glide)</td>
<td>Glide</td>
<td>Step</td>
</tr>
<tr>
<td>Manipulated Channel</td>
<td></td>
<td>Height</td>
</tr>
</tbody>
</table>

Active Channel Width: Glide Depth: 8"
Riffle Depth: 3"
Step Height: 3"
Pool Depth: 8'1"
Run Depth: 3"
Bank Height (Right Bank): 1/2
Bank Height (Left Bank): 1/2

Substrate Composition: Mark approximate percentages for each substrate type observed.

<table>
<thead>
<tr>
<th>Substrate Type</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt or Clay</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Sand</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Gravel (0.1-2 inches)</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Cobble (2-10 inches)</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Boulder (&gt;10 inches)</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Bedrock</td>
<td>&lt;5%</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

<table>
<thead>
<tr>
<th>Condition</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear</td>
<td></td>
</tr>
<tr>
<td>Stained (&quot;iced tea&quot;)</td>
<td></td>
</tr>
<tr>
<td>Turbid (muddy/silty)</td>
<td></td>
</tr>
<tr>
<td>Rusty-Red</td>
<td></td>
</tr>
<tr>
<td>Milky</td>
<td></td>
</tr>
<tr>
<td>Other (foam, dyes, chemicals)</td>
<td></td>
</tr>
</tbody>
</table>

Aquatic Plants in Stream:

<table>
<thead>
<tr>
<th>Condition</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating (e.g. duck weed)</td>
<td>Absent</td>
</tr>
<tr>
<td>Attached (e.g. water lily)</td>
<td>Absent</td>
</tr>
</tbody>
</table>

Algae in Stream:

<table>
<thead>
<tr>
<th>Condition</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating (e.g. planktonic)</td>
<td>Absent</td>
</tr>
<tr>
<td>Attached (e.g. filamentous)</td>
<td>Absent</td>
</tr>
</tbody>
</table>

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

□ >75% covered  □ 75-50% covered  □ 50%-25% covered  □ <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).

Area of Concern Worksheets
Indicate # and type of sheets completed for this reach assessment.

- Erosion
- Fish Barrier
- Storm Water Outfall
- Modified Channel
- Impacted Buffer
- Trash/Debris
- Water Conditions

Developed By: CT-NRCS
January 2008
## CT-NRCS
### Stream Assessment Sheet

**Reach Level Assessment**

### Riparian Vegetation

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubbs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

### Surrounding Land Use

Mark the dominate land use(s) for each “zone”, if known or observed.

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Immediately adjacent to stream</th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Agricultural</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Forested</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Recreational</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Industrial</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Other</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Commercial</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

### Areas of Concern Checklist

Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streambed instability within the reach? ☐ Yes ☐ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? ☐ Yes ☐ No
- Are there any storm water cutoffs, discharge pipes or discharges within the reach? Indicate the number observed: ☐ Yes ☐ No
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? ☐ Yes ☐ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? ☐ Yes ☐ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? ☐ Yes ☐ No
- Is there any portion of the reach that has a change in water conditions? ☐ Yes ☐ No

### Notes

Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

---

Developed By: CT-NRCS  
January 2008
CT - NRCS
Stream Assessment Worksheet

Fish Barrier

Survey Basin Code:          Date:   7/23/15  
Name of Stream: WILMOT        Assessed By: AB RE
Reach Code: WLSB             
Designated Stream Type:      
Site ID:                     

Make All Observations Facing Downstream

Location of Barrier: Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.
A N D  G O E B E L  R D .

Type of Barrier: Mark the type of fish barrier.
☐ Dam       ☐ Culvert       ☐ Velocity Barrier ☒ Other DRIED POND

Dam Data: Provide all relevant data.

Height of Dam: ft.          Length of Spillway: ft.  Shape of Spillway: ☐ Straight ☐ Crescent
Materials: ☐ Stone ☐ Concrete ☐ Stone & Concrete ☐ Timber-Crib ☐ Other
Is there other infrastructure associated with the Dam? ☐ No ☐ Yes (If yes mark the type below)
☐ Factory ☐ Hydro Facility ☐ Mill ☐ Residence ☐ Other

Gulvert Data: Provide all relevant data.

Type of Culvert: ☐ Box ☐ Pipe ☐ Pipe-Arch ☐ Arch
Culvert Material: ☐ Concrete ☐ Corrugated Metal ☐ Plastic ☐ Stone
Culvert Outlet: ☐ Perched:.... ft. ☐ Ramped ☐ Submerged
# of Culverts: Culvert Length: ft.

Velocity Barrier Data: Provide all relevant data.

Nature of Barrier: ☐ Grade Control Sill ☐ Concrete Apron ☐ Channel Cross-Section ☐ Other

Notes: Use the space provided to record important observations otherwise not captured on this sheet.

DRIED STREAM AND POND BETWEEN TWO STRETCHES OF THE REACH.
# CT - NRCS

**Stream Assessment Worksheet**

**Storm Water Outfall**

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date: 7/23/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By: AB PE</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Outfall:**
- ☑ Right Bank
- ☐ Left Bank

Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.

4 converts

---

<table>
<thead>
<tr>
<th>Outfall Type:</th>
<th>Pipe</th>
<th>Leak Off</th>
<th>Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow:</td>
<td>☑ None</td>
<td>☐ Trickle</td>
<td>☐ Moderate</td>
</tr>
<tr>
<td>Odor:</td>
<td>☐ None</td>
<td>☐ Sewage</td>
<td>☐ Rancid / Sour</td>
</tr>
<tr>
<td>Deposits / Stains:</td>
<td>☐ None</td>
<td>☐ Sediment Delta</td>
<td>☐ Oily Stain</td>
</tr>
<tr>
<td>Benthic Growth:</td>
<td>☢-None</td>
<td>☐ Brown</td>
<td>☐ Green</td>
</tr>
</tbody>
</table>

**Pipe Data: Provide all relevant data.**

<table>
<thead>
<tr>
<th>Pipe Material:</th>
<th>☑ Concrete</th>
<th>☑ Corrugated Metal</th>
<th>☐ Plastic</th>
<th>☐ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☑ Road</td>
<td>☐ Parking Lot</td>
<td>☐ Other</td>
<td>☐ Unknown</td>
</tr>
<tr>
<td>Pipe Outlet:</td>
<td>☐ Perched</td>
<td>ft.</td>
<td>☐ Ramped</td>
<td>☐ At Stream Level</td>
</tr>
<tr>
<td>Pipe Size:</td>
<td>Diameter: 4 ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># of Pipes:</td>
<td>☑ 1</td>
<td>☐ 2</td>
<td>☐ 3 +</td>
<td></td>
</tr>
</tbody>
</table>

**Leak-Off Data: Provide all relevant data.**

<table>
<thead>
<tr>
<th>Leak-Off Swale:</th>
<th>☑ Concrete</th>
<th>☐ Asphalt</th>
<th>☐ Stone</th>
<th>☐ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☐ Road</td>
<td>☐ Parking Lot</td>
<td>☐ Recreational Field</td>
<td>☐ Other</td>
</tr>
<tr>
<td>Length of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width of Swale:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Channel Data: Provide all relevant data.**

<table>
<thead>
<tr>
<th>Channel Material:</th>
<th>☐ Concrete</th>
<th>☐ Asphalt</th>
<th>☐ Stone</th>
<th>☐ Earthen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributing Source(s):</td>
<td>☐ Road</td>
<td>☐ Parking Lot</td>
<td>☐ Recreational Field</td>
<td>☐ Other</td>
</tr>
<tr>
<td>Channel Length:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Width:</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.
CT – NRCS
Stream Assessment Worksheet

Degrade Buffer

Survey Basin Code:  
Name of Stream: WILMOT  
Reach Code: WILS  
Designated Stream Type:  
Site ID:  

Date: 7/23/15  
Assessed By: AB RE

Make All Observations Facing Downstream

Location / Extent of Degrade Buffer: 1) Mark and label the location of the degrade buffer on the map. 2) Briefly describe the location of the site relative to roads or other landmarks.

IN FIRST BEND OF THE REACH, LEFT BANK

Mark where the degrade buffer occurs.

- Meander Bend  
- Straight Section  
- Steep Slope/Valley Wall  
- Other

- Left Bank  
- Right Bank

Estimate length of degrade buffer: 100 ft.

Type of Degradation:

Left Bank:  
- Minimal Vegetation  
- Minimal Width  
- Invasive Plants  
- Other

Right Bank:  
- Minimal Vegetation  
- Minimal Width  
- Invasive Plants  
- Other

Dominate Land Cover

<table>
<thead>
<tr>
<th></th>
<th>Paved</th>
<th>Bare Ground</th>
<th>Turf / Lawn</th>
<th>Tall Grass</th>
<th>Scrub / Shrub</th>
<th>Trees</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Bank</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Right Bank</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Immediately Adjacent Land Use: Mark the land use(s) immediately adjacent to the modified section.

Left Bank:  
- Rural Residential  
- Urban Residential  
- Commercial  
- Forested

- Suburban Residential  

Right Bank:  
- Rural Residential  
- Urban Residential  
- Commercial  
- Forested

- Suburban Residential

Existing Width of Riparian Vegetation: Mark the average width of riparian vegetation to the modified section.

Left Bank:  
- < 15 ft.  
- 15 – 35 ft.  
- 35 – 50 ft.  
- 50 – 100 ft.  
- > 100 ft.

Right Bank:  
- < 15 ft.  
- 15 – 35 ft.  
- 35 – 50 ft.  
- 50 – 100 ft.  
- > 100 ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.

Developed By CT-NRCS  
January 2008
CT-NRCS
Stream Assessment Sheet

Survey Basin Code: [Blank]  Date(s): 7/28/15  11:45 - 1 PM
Name of Stream: WILMOR
Reach Code: WLD5A
Designated Stream Type: [Blank]

Make All Observations Facing **Downstream**

Was the entire reach of stream surveyed?  ☑ Yes  ☐ No, Which section(s) were not surveyed? Why?

<table>
<thead>
<tr>
<th>Channel Morphology: Mark the predominate condition(s), and indicate the average measurements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Step-Pool  ☑ Pool-Riffle  ☐ Run  ☐ Glide  ☑ Manipulated Channel (piped, lined, etc.)</td>
</tr>
<tr>
<td>Active Channel Width: [Blank]  Glide Depth: [Blank]</td>
</tr>
<tr>
<td>Riffle Depth: 1'  Step Height: [Blank]</td>
</tr>
<tr>
<td>Pool Depth: 6'  Bank Height (Right Bank): [Blank]</td>
</tr>
<tr>
<td>Run Depth: [Blank]  Bank Height (Left Bank): [Blank]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substrate Composition: Mark approximate percentages for each substrate type observed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Silt or Clay ☐ &lt;5% ☑ 5-25% ☑ 25-50% ☑ 50-75% ☑ &gt;75%</td>
</tr>
<tr>
<td>☑ Sand ☑ &lt;5% ☑ 5-25% ☑ 25-50% ☑ 50-75% ☑ &gt;75%</td>
</tr>
<tr>
<td>☑ Gravel (0.1-2 inches) ☑ &lt;5% ☑ 5-25% ☑ 25-50% ☑ 50-75% ☑ &gt;75%</td>
</tr>
<tr>
<td>☑ Cobble (2-10 inches) ☑ &lt;5% ☑ 5-25% ☑ 25-50% ☑ 50-75% ☑ &gt;75%</td>
</tr>
<tr>
<td>☑ Boulder (&gt;10 inches) ☑ &lt;5% ☑ 5-25% ☑ 25-50% ☑ 50-75% ☑ &gt;75%</td>
</tr>
<tr>
<td>☑ Bedrock ☑ &lt;5% ☑ 5-25% ☑ 25-50% ☑ 50-75% ☑ &gt;75%</td>
</tr>
</tbody>
</table>

Describe Water Conditions: Mark all that apply.

☑ Clear  ☑ Stained ("iced tea")  ☑ Turbid (muddy/silty)
☒ Green  ☑ Rusty-Red  ☑ Milky
☒ Odors  ☑ Other (foam, dyes, chemicals)

Aquatic Plants in Stream:

Floating: (e.g. duck weed) ☐ Absent  ☑ In Spots  ☑ Everywhere
Attached: (e.g. water lily) ☐ Absent  [Blank]  ☑ Everywhere

Algae in Stream:

Floating: (e.g. planktonic) ☐ Absent  ☑ In Spots  ☑ Everywhere
Attached: (e.g. filamentous) ☐ Absent  ☑ In Spots  ☑ Everywhere

Canopy Cover: Mark approximate percentage of stream covered by tree canopy.

☐ >75% covered  ☑ 75-50% covered  ☑ 50-25% covered  ☑ <25% covered

Note: Items marked with an asterisk (*) indicate a potential area of concern. Please record all relevant information on the appropriate Area of Concern Worksheet(s).
**CT-NRCS**  
*Stream Assessment Sheet*

**Reach Level Assessment**

### Riparian Vegetation:
Characterize the average density of vegetation in the first 35 feet adjacent to the stream for both banks.

<table>
<thead>
<tr>
<th></th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
<th>Left Bank</th>
<th>Right Bank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turf Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Grass</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Shrubs</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Deciduous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Coniferous Trees</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
</tr>
</tbody>
</table>

### Surrounding Land Use:
Mark the dominate land use(s) for each "zone", if known or observed.

<table>
<thead>
<tr>
<th></th>
<th>&lt; ¼ Mile from stream</th>
<th>&gt; ¼ Mile from stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Residential</td>
<td>□ Rural Residential</td>
<td>□ Rural Residential</td>
</tr>
<tr>
<td>Agricultural</td>
<td>□ Agricultural</td>
<td>□ Agricultural</td>
</tr>
<tr>
<td>Suburban Residential</td>
<td>□ Suburban Residential</td>
<td>□ Suburban Residential</td>
</tr>
<tr>
<td>Forested</td>
<td>□ Forested</td>
<td>□ Forested</td>
</tr>
<tr>
<td>Urban Residential</td>
<td>□ Urban Residential</td>
<td>□ Urban Residential</td>
</tr>
<tr>
<td>Recreational</td>
<td>□ Recreational</td>
<td>□ Recreational</td>
</tr>
<tr>
<td>Industrial</td>
<td>□ Industrial</td>
<td>□ Industrial</td>
</tr>
<tr>
<td>Other</td>
<td>□ Other</td>
<td>□ Other</td>
</tr>
<tr>
<td>Commercial</td>
<td>□ Commercial</td>
<td>□ Commercial</td>
</tr>
</tbody>
</table>

### Areas of Concern Checklist:
Marking "Yes" to any of the following questions indicates that an Area of Concern Worksheet should be filled out for the appropriate concern. For each occurrence observed, complete and area of concern sheet.

- Is there evidence of either stream bank erosion or streamed instability within the reach? □ Yes □ No
- Are there any dams or any other possible natural or artificial barriers to fish migration? □ Yes □ No
- Are there any storm water outfalls, discharge pipes or discharges within the reach? Indicate the number observed: □
- Is there any portion of the channel that has been modified (not culvert) (channeled, piped, rip rap)? □ Yes □ No
- Is there any portion of the reach where the riparian buffer has been compromised or is nonexistent? □ Yes □ No
- Is there any portion of the reach that contains trash or other debris (cars, appliances, construction waste)? □ Yes □ No
- Is there any portion of the reach that has a change in water conditions? □ Yes □ No

### Notes:
Use the space provided to record important observations otherwise not captured on the Reach Assessment Sheet or the Areas of Concern Worksheets.

- ENTIRE REACH IS MODIFIED BY CULVERTS
- HIGH DECOMPOSING ORGANIC MATTER
- SOME UNUSUAL ALGAE
- MANY DRIED OUT STRETCHES / MUDDY

*Developed By CT-NRCS  
January 2008*
**CT – NRCS**  
Stream Assessment Worksheet  
Fish Barrier

<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>7/23/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>AB RE</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td>WUBSA</td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location of Barrier:** Mark and label the location of the barrier on the map and provide a brief description of the location of the barrier relative to roads or other landmarks.

*MULTIPLE, THROUGHOUT REACH*

---

**Type of Barrier:** Mark the type of fish barrier.

- [ ] Dam  
- [X] Culverts  
- [ ] Velocity Barrier  
- [ ] Other

**Dam Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Height of Dam:</th>
<th>ft.</th>
<th>Length of Spillway:</th>
<th>ft.</th>
<th>Shape of Spillway:</th>
<th>[ ] Straight</th>
<th>[ ] Crescent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>[ ] Stone</td>
<td>[ ] Concrete</td>
</tr>
<tr>
<td>Stone</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>[ ] Stone &amp; Concrete</td>
<td>[ ] Timber-Crib</td>
</tr>
<tr>
<td>Is there other infrastructure associated with the Dam?</td>
<td>[ ] No</td>
<td>[ ] Yes (If yes mark the type below)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[ ] Factory</td>
<td></td>
<td>[ ] Hydro Facility</td>
<td>[ ] Mill</td>
<td>[ ] Residence</td>
<td>[ ] Other</td>
<td></td>
</tr>
</tbody>
</table>

**Culvert Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th>Type of Culvert:</th>
<th></th>
<th>Culvert Material:</th>
<th></th>
<th>Culvert Outlet:</th>
<th></th>
<th>Culvert Size:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Box</td>
<td>[X] Pipe</td>
<td>[X] Concrete</td>
<td>[ ] Corrugated Metal</td>
<td>[X] Plastic</td>
<td>[ ] Stone</td>
<td>[ ] Perched:....</td>
<td>ft.</td>
</tr>
<tr>
<td>[ ] Arch</td>
<td>[ ] Concrete</td>
<td>[ ] Corrugated Metal</td>
<td>[ ] Plastic</td>
<td>[ ] Stone</td>
<td>[ ] Perched:....</td>
<td>ft.</td>
<td></td>
</tr>
<tr>
<td>[ ] Concrete</td>
<td>[ ] Corrugated Metal</td>
<td>[ ] Plastic</td>
<td>[ ] Stone</td>
<td>[ ] Perched:....</td>
<td>ft.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Velocity Barrier Data:** Provide all relevant data.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] Grade Control Sill</td>
<td>[ ] Concrete Apron</td>
<td>[ ] Channel Cross-Section</td>
<td>[ ] Other</td>
<td>[ ] Grade Control Sill</td>
<td>[ ] Concrete Apron</td>
</tr>
</tbody>
</table>

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

- LACK OF WATER IN AREAS NEAR CULVERTS MADE IT DIFFICULT TO KNOW IF THE CULVERTS WOULD BE PERMANENT BARRIERS.
- PRIMARY CAUSE OF FISH BARRIERS DUE TO ABSENCE OF WATER THROUGH MANY STRETCHES OF REACH.
- WOODY DEBRIS FORMED NATURAL FISH BARRIERS.
CT – NRCS
Stream Assessment Worksheet
Storm Water Outfall

Survey Basin Code:                      Date: 7/23/15
Name of Stream:  WILMOT BROOK        Assessed By: AB RE
Reach Code:  WLRCA
Designated Stream Type:  
Site ID:  

Make All Observations Facing Downstream

Location of Outfall:  □ Right Bank  □ Left Bank  Mark and label the location of the outfall on the map and provide a brief description of the location of the outfall relative to roads or other landmarks.
1. off large culvert - 2 ft drain (street) - concrete
2. house drainage (gutters)

Outfall Type:  □ Pipe  □ Leak Off  □ Channel
Flow:  □ None  □ Small  □ Trickle (large or)  □ Moderate  □ Substantial
Odor:  □ None  □ Sewage  □ Rancid / Sour  □ Sulfur (rotten eggs)
Deposits / Stains  □ None  □ Sediment Delta  □ Oily Stain  □ Black
Benthic Growth  □ None  □ Brown  □ Green  □ Orange

Pipe Data: Provide all relevant data.
Pipe Material:  □ Concrete  □ Corrugated Metal  □ Plastic  □ Other
Contributing Source(s):  □ Road  □ Parking Lot  □ Other  □ Unknown
Pipe Outlet:  □ Perched...... ft.  □ Ramped  □ At Stream Level
Pipe Size:  Diameter:  2 ft.
# of Pipes:  □ 1  □ 2  □ 3 +

Leak-Off Swale:  Provide all relevant data.
Leak-Off Swale:  □ Concrete  □ Asphalt  □ Stone  □ Earthen
Contributing Source(s):  □ Road  □ Parking Lot  □ Recreational Field  □ Other
Length of Swale:  ft.
Width of Swale:  ft.

Channel Data: Provide all relevant data.
Channel Material:  □ Concrete  □ Asphalt  □ Stone  □ Earthen
Contributing Source(s):  □ Road  □ Parking Lot  □ Recreational Field  □ Other  □ Unknown
Channel Length:  ft.
Channel Width:  ft.

Notes: Use the space provided to record important observations otherwise not captures on this sheet.
<table>
<thead>
<tr>
<th>Survey Basin Code:</th>
<th>Date:</th>
<th>H23/15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Stream:</td>
<td>Assessed By:</td>
<td>AB RE</td>
</tr>
<tr>
<td>Reach Code:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designated Stream Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site ID:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Make All Observations Facing Downstream**

**Location / Extent of Modified Channel:** Mark and label the location of the modified channel on the map and provide a brief description of the location of the channel section relative to roads or other landmarks.

**Mark where channel modification occurs:**
- [x] Meander Bend
- [x] Straight Section
- [ ] Steep Slope/Valley Wall
- [ ] Other

**Estimate length of channel modification:** 400 ft.

**Estimate height of bank modification:** 5 ft.

**Type of Manipulation:**
- [x] Channelization
- [ ] Bank Armoring
- [ ] Concrete Channel
- [ ] Other

**Extent of Manipulation:**
- [x] Right Bank
- [x] Left Bank
- [x] Channel Bottom

**Channel / Bank Materials:**
- [x] Natural
- [ ] Rip Rap
- [ ] Concrete
- [ ] Gabions
- [ ] Metal

**Immediately Adjacent Land Use:** Mark the land use(s) immediately adjacent to the modified section.
- [ ] Rural Residential
- [ ] Urban Residential
- [ ] Commercial
- [ ] Forested
- [ ] Suburban Residential
- [ ] Industrial
- [ ] Agricultural
- [x] Recreational

**Existing Width of Riparian Vegetation:** Mark the average width of riparian vegetation to the modified section.
- [x] < 15 ft.
- [ ] 15 - 35 ft.
- [ ] 35 - 50 ft.
- [ ] 50 - 100 ft
- [ ] > 100 ft

**Is there a change in the average width of the active channel?**
- [x] Yes
- [ ] No

**Estimate Width:** 5 ft

**Is there evidence of sediment deposition in the channel?**
- [ ] Yes
- [x] No

**Is the channel connected to a floodplain?**
- [x] Yes
- [ ] No

**Notes:** Use the space provided to record important observations otherwise not captured on this sheet.

*CHANNEL IS MODIFIED AFTER CULVERT, GOES FROM SMALL TRICKLE TO COMPLETELY DRY. CULVERT ROUTE STREAM UNDER GOLF COURSE.*
**CT - NRCS**  
**Stream Assessment Worksheet**  
**Visual Water Conditions / Excessive Plant or Algae Growth**

- **Survey Basin Code:** 
- **Date:** 7/31/15 
- **Name of Stream:** Wilkes Brook  
- **Assessed By:** AB RE 
- **Reach Code:** W-6-5-1-A 
- **Designated Stream Type:** 
- **Site ID:**

### Location / Extent of Visual Water Conditions and/or Excessive Plant or Algae Growth
1. Mark and label the location on the map.  
2. Briefly describe the location of the site relative to roads or other landmarks.

   - SMALL POST PATH 10 FT FROM 400 HILL ST - CULVERT - LARGE POOL

### Immediately Adjacent Land Use
- Rural Residential  
- Urban Residential  
- Commercial  
- Suburban Residential  
- Industrial  
- Agricultural  
- Forested  
- Recreational

### Describe Water Conditions
- Clear  
- Stained ("iced tea")  
- Turbid (muddy / silty)  
- Odors  
- Green  
- Rusty-Red  
- Milky  
- Other (foam, dyes, chemicals)

### Canopy Cover
- >75% covered  
- 75-50% covered  
- 50-25% covered  
- <25% covered

### Aquatic Plants in Stream
- Floating: (e.g. duck weed) Absent  
- Attached: (e.g. water lily) Absent  
- Everywhere

### Algae in Stream
- Floating: (e.g. planktonic) Absent  
- Attached: (e.g. filamentous) Absent  
- Everywhere

### Is the change in water condition or excessive plant / algae growth located at or directly below storm water outfall?
- Yes  
- No

### Is the change in water conditions or excessive plant / algae growth associated with a change in channel dimensions (depth & width)?
- Yes  
- No

### Is the change in water conditions or excessive plant / algae growth associated with an impoundment / dam on the stream?
- Yes  
- No

### Notes: Use the space provided to record important observations otherwise not captures on this sheet.

   - REFER TO PHOTOS. SOME STRANGE ALGAL GROWTH? NOT SORE.