Please refer to the Izaak Walton League’s volunteer stream monitoring protocol and identification guides to learn how to complete this form. Please use the League’s *Field Guide to Aquatic Macroinvertebrates* to complete portions of this stream quality survey form. For assistance, please call (800) BUG-IWLA or send an e-mail to sos@iwla.org.

**THE IZAAK WALTON LEAGUE OF AMERICA**

**Save Our Streams**

*Stream Quality Survey*

<table>
<thead>
<tr>
<th>SENSITIVE</th>
<th>LESSENTIVE</th>
<th>TOLERANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caddisflies (except net spinners)</td>
<td>Dobsonflies</td>
<td>Alderflies</td>
</tr>
<tr>
<td>Mayflies</td>
<td>Fishflies</td>
<td>Crayfish</td>
</tr>
<tr>
<td>Stoneflies</td>
<td>Common</td>
<td>Scuds</td>
</tr>
<tr>
<td>Water snipe flies</td>
<td>net spinning</td>
<td>Aquatic</td>
</tr>
<tr>
<td>Riffle beetles</td>
<td>Caddisflies</td>
<td>sowbugs</td>
</tr>
<tr>
<td>Water pennies</td>
<td>Crane flies</td>
<td>Clams</td>
</tr>
<tr>
<td>Gilled snails</td>
<td>Damselflies</td>
<td>Mussels</td>
</tr>
<tr>
<td>Dragonflies</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

___ # of letters multiplied by 3 = ___  ___ # of letters multiplied by 2 = ___  ___ # of letters multiplied by 1 = ___

Now add the three totals from each column for your stream’s index value. Total index value =

Compare the final index value to the following ranges of numbers to determine the water quality of the stream sample site.

**Water Quality Rating**

____ Excellent ( > 22)  ____ Good (17-22)  ____ Fair (11-16)  ____ Poor ( < 11)
### Fish Populations:
- scattered individuals
- scattered schools
- trout
- bass
- catfish
- carp
- other

### Barriers to fish movement:
- beaver dams
- man-made dams
- waterfalls (> 1 ft.)
- other
- none

### Surface water appearance:
- clear
- clear, but tea-colored
- colored sheen (oily)
- foamy
- milky
- muddy
- black
- grey
- other __________

### Stream bed deposit (bottom):
- grey
- orange/red
- yellow
- black
- brown
- silt
- sand
- other __________

### Odor:
- rotten eggs
- musky
- oil
- sewage
- other __________
- none

### Stability of stream bed:
- Bed sinks beneath your feet in:
  - no spots
  - a few spots
  - many spots

### Algae color:
- light green
- dark green
- brown coated
- matted on stream bed
- hairy

### Algae located:
- everywhere
- in spots
- ____ % of bed covered

### Stream channel shade:
- > 80% excellent
- 50%-80% high
- 20%-49% moderate
- < 20% almost none

### Stream bank composition (=100%):
- ____ % trees
- ____ % shrubs
- ____ % grass
- ____ % bare soil
- ____ % rocks
- ____ % other

### Stream bank erosion:
- > 80% severe
- 50%-80% high
- 20%-49% moderate
- < 20% slight

### Riffle composition (=100%)
- ____ % silt (mud)
- ____ % sand (1/16” – ¼” grains)
- ____ % gravel (1/4” – 2” stones)
- ____ % cobbles (2” – 10” stones)
- ____ % boulders (> 10” stones)

### Land uses in the watershed (upstream and surrounding sampling site):
Indicate whether the following land uses have a high (H), moderate (M), slight (S), or none (N) potential impact to the quality of your stream.

- Oil & gas drilling
- Housing developments
- Forestry
- Logging
- Urban uses (parking lots, highways, etc.)
- Sanitary landfill
- Active construction
- Mining
- Agriculture (type:______________)
- Trash dump
- Fields
- Other __________

### Comments:
Indicate the current and potential future threats to the stream’s health and attach additional pages or photographs to better describe the condition of the stream.