Stream Habitat Assessment

Assessing stream and riparian conditions
Stream Habitat Assessment

- Conducted yearly
- Document all observations
- Pictures, pictures and more pictures!
Transect
Stream Reach
Stream Habitat Type

- Pool
- Riffle
- Run
- Glide
Riffle
Run
Pool
Glide
Streambed Substrate

- Embeddedness
Pebble Count Survey

The Wolmanator (DEQ)
## Pebble Count Survey

### Wolman pebble count *(at transect)*

<table>
<thead>
<tr>
<th>Size class</th>
<th>Dimension</th>
<th>In wetted</th>
<th>Out wetted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silt/Clay</td>
<td>0—1 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td>1.1—2.5 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very fine pebble</td>
<td>2.51—6 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pebble</td>
<td>6.1—15 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coarse pebble</td>
<td>15.1—31 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very coarse pebble</td>
<td>31.1—64 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small cobble</td>
<td>64.1—128 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large cobble</td>
<td>128.1—256 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small boulder</td>
<td>256.1—512 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium boulder</td>
<td>512.1—1024 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large boulder</td>
<td>1024 mm and larger</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A: LONGEST AXIS (LENGTH)  
B: INTERMEDIATE AXIS (WIDTH)  
C: SHORTEST AXIS (THICKNESS)
Streambanks

- A stable stream bank is a sign of a stable stream
Vegetated Cut Bank
Sloping Bank
Sand/Gravel Bar
Rip Rap
Constructed Bank
Channel Shape

- Trapezoidal
- Rectangular
- Inverse Trapezoidal
Stream Sinuosity

- Low
- Moderate
- High
- Braided

Distance measured along stream
Micro-Habitats
Canopy Cover
Riparian Zone

- Area of native vegetation directly adjacent to stream banks
- Healthy riparian zone will have diversity of plants

- Trees that thrive in hydric soils, cottonwood, western red cedar
- Willows, alders, other shrubs
- Sedges, rushes, and grasses

Water and Uplands
Riparian Zone Plant Cover
Adjacent Landuse
Human Use Activities
Evidence of Human Use
Photographs

- Upload onto database
- Details
  - Site number
  - Direction of photo (upstream/downstream)
  - Date
Questions?