



Sample # bioSample # Stream Name Location

Surveyor Sample Date County Macro Sample Type Habitat Complete QHEI Score

1-Substrate (20 points maximum)

Substrate Score:

Check 1 Predominant Pool & 1 Predominant Riffle

Check all that are present

P=Pool, R=Riffle

Grid for substrate types: Predominant, Present, P, R. Includes Bldrs/Slabs, Boulders, Cobble, Gravel, Sand, Bedrock, Hardpan, Detritus, Muck, Silt, Sludge, Artificial.

Substrate Quality (check only 1, or check 2 and AVERAGE)

Substrate Origin (Limestone, Tills, Wetlands, Hardpan, Sandstone, Rip/Rap, Lacustrine, Shale, Coal fines) and Silt Cover/Embeddedness options.

NOTE: ignore sludge originating from point sources; score based on natural substrates >4 substrates present(2) Comments:

2-Instream Cover (20 points maximum)

Instream Cover Score:

Type (check ALL that apply)

Amount (check only 1, or 2 and AVERAGE)

Checkboxes for instream cover types: Undercut banks, Overhanging vegetation, Shallows, Rootmats, Deep pools, Rootwads, Boulders, Aquatic macrophytes, Logs and woody debris, Extensive, Moderate, Sparse, Nearly absent.

3-Channel Morphology (20) (check only one per category, OR two and AVERAGE)

Channel Score:

Grid for channel morphology: Sinuosity, Development, Channelization, Stability, Modifications/Other. Includes options like High, Moderate, Low, None, Excellent, Good, Fair, Poor, Recovered, etc.

4-Riparian Zone & Bank Erosion (10 points maximum)

Riparian Score:

Left/Right banks looking downstream (For each category, check only one per bank, OR two per bank and AVERAGE).

Grid for riparian zone: Riparian width, Erosion/Runoff-Floodplain quality, Bank Erosion. Includes options like Wide, Moderate, Narrow, Very narrow, Forest, Shrub, Residential, Fenced pasture, Conservation Tillage, etc.

5a-Pool/Glide Quality (12 points maximum)

Pool/Glide Score:

Grid for pool/glide quality: Max pool depth, Morphology, Pool/Run/Riffle current velocity. Includes options like >1m, 0.7-1m, 0.4-0.7m, etc.

5b-Riffle/Run Quality (8) (check only one per category, OR two and AVERAGE)

Riffle/Run Score:

Grid for riffle/run quality: Riffle/run depth, Riffle/run substrate, Riffle/run embeddedness. Includes options like Generally >10cm, Stable-e.g. cobble, etc.

6-Gradient (10 points maximum)

Gradient Score:

Average width: Gradient: (ft/mile) Drainage Area: (square miles)

Comments:



OWQ Biological Studies QHEI (Qualitative Habitat Evaluation Index)

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Surveyor	Sample Date	County	Macro SampleType
<input type="checkbox"/> Habitat Complete			QHEI Score: <input type="text"/>

Impacts/Miscellaneous

Major Suspected Impacts (Check all that apply)

- | | |
|---------------------------------------|---|
| <input type="checkbox"/> None | <input type="checkbox"/> Suburban |
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Channelization |
| <input type="checkbox"/> WWTP | <input type="checkbox"/> Riparian Removal |
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Flow Alteration |
| <input type="checkbox"/> Livestock | <input type="checkbox"/> CSOs |
| <input type="checkbox"/> Silviculture | <input type="checkbox"/> Mining |
| <input type="checkbox"/> Construction | <input type="checkbox"/> Landfills |
| <input type="checkbox"/> Urban Runoff | <input type="checkbox"/> Natural |

Pollution Impact Comments:

Miscellaneous QHEI Information

Subjective rating (1-10): <input type="text"/>	% Riffle: <input type="text"/>	<i>Is reach representative of stream?</i> <input type="text"/>
Aesthetic rating (1-10): <input type="text"/>	% Run: <input type="text"/>	
Canopy Cover (% Open): <input type="text"/>	% Pool: <input type="text"/>	

General QHEI Notes: