*Two transects will ideally be located at each habitat type: 1) deepest portion of pools, 2) typical riffle areas,*

*3) run/riffle-run areas. Habitat type will be noted for each transect and indicates which variable the field data applies to. Water Quality variables can apply to multiple sites depending on sampling location.*

**Substrate and Cover**

* **Substrate Types % (fines, gravel, cobble, boulder, bedrock/hardpan)**
* average substrate type-embryo - riffles (**V7**)
* % substrate-fry – riffles, pools, runs (**V8**)
* dominant substrate type – riffle runs (**V9**)
* % fines in riffle runs (**V16A**)
* % fines in spawning areas - riffles (**V16B**)
* **Embeddedness %** **(% of surfaces covered by fines)** (**26**)
* **Unembedded Cover** **( % of transect with cover substrate, aquatic vegetation, large woody debris, undercut banks, overhanging tree branches)**
* % instream cover adults, juveniles – not overhanging tree branches (**V6A, V6J**)
* pool class – (**V15**)

**Bank and Riparian**

* **Condition of Banks**
* % rooted vegetation (**V12**)
* eroding banks (**25**)
* Deposition/bar condition (**24**)
* **Riparian Quality**
* average % vegetation (**V11**)
* % midday shade (**V17**)
* Floodplain presence (**27**)
* Ice Scarring presence/height (**23**)

**Form and Flow**

* **Channel Cross-section**
  + Depth (**V4, V15**)
  + Velocity (**V5**)
  + % Pools – combined with lengths (**V10**)
  + 1:2 Analysis

**Water Quality**

* **Water/Air Temperature Tracking (V1-L, V1-R,**
* **Dissolved Oxygen (3-L, V3-R)**
* **pH (V13-R, V13-L)**