Following the Standard Operating Procedures (SOP) for Biomonitoring Fish Communities

Following the SOP in its entirely is critical in order to obtain a valid fish IBI score. The items below represent areas where mistakes are often made by assessors:

- 1. **Level of effort** expended should conform to SOP recommendations with regard to equipment and personnel.
- 2. Stream reach length to be sampled should be 35 times the mean stream width (MSW).
- 3. Guidance in the SOP **for time of year for sampling** should be adhered to carefully; best professional judgement also comes into play after significant rainfall events.
- 4. A representative of each encountered species should be **photo-documented** with quality photographs (use of fish viewer or photo tank is highly recommended) or **retained as a voucher specimen**. Please refer to guidance from the WRD's Nongame Conservation Section before vouchering any state protected fish species.
- 5. The ability to **correctly identify** fish to species is critical; when in doubt, identifications should be verified by a regional ichthyologist. The person identifying the fish specimen should be listed in any report or publication resulting from the assessment.
- 6. Per the SOP, fish communities in streams with watershed areas less than one square mile cannot be effectively assessed with this procedure. Benthic macroinvertebrate assessments can sometimes serve as an alternate biological assessment tool (contact GAEPD at 404-675-1646).
- 7. A permit from the U.S. Fish and Wildlife Service is required to sample waters with known populations of **fishes listed under the U.S. Endangered Species Act**.

Methodology for IBI fish sampling in Georgia has been carefully laid out in GAWRD's "Part 1: Standard Operating Procedures for Conducting Biomonitoring on Fish Communities in Wadeable Streams in Georgia". Ecoregion-specific directions for scoring are found in Part 2 (Piedmont), Part 3 (Southeastern Plains), Part 4 (Ridge and Valley), and Part 5 (Blue Ridge).

Available at: http://www.georgiawildlife.com/node/913

Failure to collect fish data according to the SOP will render invalid IBI results. After reading the SOP carefully, please call GAWRD Stream survey Team at 770-761-3011 if uncertainty remains regarding any portion of the SOP.