

Equipment and supplies used for U.S. Geological Survey mercury studies of invertebrates and fish.

[HCl, hydrochloric acid; %, percent; v/v, volume per volume; DI, deionized; lbs, pounds; mL, milliliters; mm, millimeter; L, liter; PETE, polyethylene terephthalate; g, gram; PP, polypropylene]

GENERAL

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|--|--|
| <input type="checkbox"/> Acid, HCl Omni Trace, 5% v/v in DI water | <input type="checkbox"/> Maps |
| <input type="checkbox"/> Barcodes with duplicates (samples, field sheets) | <input type="checkbox"/> Markers, fine-tip, alcohol/solvent resistant |
| <input type="checkbox"/> Batteries (9-volt, AA, C, D) | <input type="checkbox"/> Markers, wide-tip, alcohol/solvent resistant |
| <input type="checkbox"/> Carboys, 5-gallon (2, tap; 2, DI water; 1, 5% HCl) | <input type="checkbox"/> Personal Flotation Device |
| <input type="checkbox"/> Camera, digital | <input type="checkbox"/> Phone |
| <input type="checkbox"/> Chairs, folding | <input type="checkbox"/> Phone numbers, emergency |
| <input type="checkbox"/> Clipboard (wooden or plastic) | <input type="checkbox"/> Protocol (on water-resistant paper) |
| <input type="checkbox"/> Coolers (4, wet ice; 2, dry ice) | <input type="checkbox"/> Shipping paperwork (instructions, lab submission forms, pre-printed FedEx labels, dry ice stickers) |
| <input type="checkbox"/> Collection permits/licenses | <input type="checkbox"/> Signs (road/safety) |
| <input type="checkbox"/> Detergent, phosphate-free (e.g., Liquinox®) | <input type="checkbox"/> Sunscreen |
| <input type="checkbox"/> Field data sheets (pre-printed, water-resistant paper) | <input type="checkbox"/> Table, folding |
| <input type="checkbox"/> Field log sheets (pre-printed, water-resistant paper) | <input type="checkbox"/> Tape, flagging, biodegradable |
| <input type="checkbox"/> First aid kit | <input type="checkbox"/> Tax exempt forms |
| <input type="checkbox"/> Flashlights and headlamps | <input type="checkbox"/> Tape, clear, 2", for shipping |
| <input type="checkbox"/> Formalin (100%, buffered to pH = 7) | <input type="checkbox"/> Travel authorization |
| <input type="checkbox"/> Garbage bags, large, plastic | <input type="checkbox"/> Tray or tub, large (for dishwashing/storage) |
| <input type="checkbox"/> Gloves, powder-free (nitrile, vinyl, other non-latex) | <input type="checkbox"/> Trays, plastic, large (for cleaning equipment) |
| <input type="checkbox"/> Gloves, heavy duty rubber (reusable) | <input type="checkbox"/> Trays, plastic, shallow (for weighing fish) |
| <input type="checkbox"/> Goggles, safety/chemical | <input type="checkbox"/> Towels, lint-free, clean-room grade |
| <input type="checkbox"/> Global Positioning System (GPS) unit | <input type="checkbox"/> Towels, paper rolls |
| <input type="checkbox"/> Head nets | <input type="checkbox"/> Traffic cones |
| <input type="checkbox"/> Multi-parameter sampler for water quality | <input type="checkbox"/> Trash bags, heavy duty |
| <input type="checkbox"/> Multi-parameter sampler calibration standards | <input type="checkbox"/> Waders |
| <input type="checkbox"/> Ice, dry (approximately 15 lbs per day of trip per cooler plus extra) | <input type="checkbox"/> Wader repair kit |
| <input type="checkbox"/> Ice, regular, "wet" | <input type="checkbox"/> Wash Bottles (500 mL, Teflon®; 1, tap water; 1, DI water; 1, dilute HCl; 1, dilute detergent) |
| <input type="checkbox"/> Insect repellent | <input type="checkbox"/> Water, high-purity DI |
| <input type="checkbox"/> Keys, identification, for invertebrates and fishes | <input type="checkbox"/> Water, tap |
| <input type="checkbox"/> Labels, (waterproof, pre-printed) | |

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INVERTEBRATES

Sampling Gear

- Dipnet, D-frame
- Forceps, plastic
- Gloves, powder-free (nitrile, vinyl, other non-latex)
- Sieves, plastic, 12-inch (coarse, 6-mm mesh)
- Sieves, plastic, 12-inch (500-micron mesh)

Sample Processing

- Bags, plastic, heavy-weight, zipper-seal, 1 L
 - Counters, hand-held
 - Forceps, plastic
 - Gloves, powder-free (nitrile, vinyl, other non-latex)
 - Ice cube trays (4), for sorting invertebrates
 - Vials with caps, plastic, 20 mL (e.g., PETE or PP)
 - Magnifying glass/hand lens
 - Scale, top-loading, accuracy to 0.01 g
 - Trays, plastic, shallow (for picking invertebrates)
 - Table cloths, plastic, medium weight
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FISH

Sampling Gear

- Aerators, battery-operated
- Batteries or fuel for electrofishing unit
- Buckets, 10 gallon
- Electrofishing unit (backpack/towed/boat)
- Gloves, rubber, safety (insulated)
- Polarizing sunglasses
- Live well or net
- Nets, large dipnet
- Nets, small
- Seine (1/4 to 1/2-inch maximum mesh)

Sample Processing

- Anesthetic CO₂ tablets (e.g., AlkaSeltzer®)
 - Bags, plastic, heavy-weight, zipper-seal, 1 L
 - Bags, plastic, heavy-weight, zipper-seal, 4–8 L
 - Cutting sheet/mat/board, plastic
 - Forceps, plastic
 - Gloves, powder-free (nitrile, vinyl, other non-latex)
 - Knives, filleting
 - Measuring board (non-metallic)
 - Pliers, needle-nose
 - Rulers, 6-inch plastic
 - Scale, top-loading, accuracy to 0.01 g
 - Scale, top-loading, accuracy to 0.1 g
 - Scale, hanging or hook, for large fish
 - Scalpels, high-grade stainless
 - Scissors, dissecting, high-grade stainless steel
 - Tin snips, small, for otolith extraction
 - Vials with caps, plastic, 20 mL, PETE or PP
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