
CHECKLIST OF FIELD EQUIPMENT AND SUPPLIES 8.7

Equipment and supplies commonly used to collect and process bottom-material samples are listed in table 8-5. The list may be modified to meet specific study needs.

Much of the equipment used in stream-gaging procedures also is used as support equipment for sampling bottom materials. A thorough description of the various types of support equipment is beyond the scope of this manual although some support equipment is listed on table 8-5. More detailed descriptions of support equipment can be found in Corbett and others (1943), Rantz and others (1982), Mudroch and MacKnight (1994), and Mudroch and Azcue (1995).

- ▶ Equipment must be cleaned and tested before each field trip.
- ▶ It is advisable to prepare a checklist so that essential and proper sampling equipment, including backup equipment and chemical reagents, are not forgotten.

Table 8-5. Checklist of field equipment and supplies

✓	Item
Sampling Devices and Equipment	
	Bottom-material (core or grab) sampler
	Bridgeboard, non-metallic; and nylon rope for bridgeboard
	Core catchers
	Core extractor/extruder
	Core liners
	Core liner caps
	Core nose pieces
Support Equipment for Sampling	
	Cranes: Type A designed for weights of 150 pounds or less.
	Crane bases:
	<ul style="list-style-type: none"> • Four-wheel base should always be used when samplers weighing 75, 100, and 150 pounds are used with the Type A crane. • Three-wheel base can be used with Type A crane.
	Reel, hanger bars, and pins: (selection of type of reel should be based largely on maximum length and strength of cable that would be required) <ul style="list-style-type: none"> • Type A reel has a fixed crank and no brake. Will accommodate 80 feet of 0.10-inch cable. The estimated practical maximum recommended load for this reel and cable combination is 100 pounds. • Type B reel has a brake and two interchangeable handles. Will accommodate 144 feet of 0.10-inch cable, or 115 feet of 0.125-inch cable. The estimated practical maximum recommended load for this reel and cable combination is 200 pounds. • Type E reel has a brake and two cranks for a 2-person operation. Will accommodate 200 feet of 0.10-inch cable, or 165 feet of 0.125-inch cable. The estimated practical maximum recommended load for this reel and cable combination is 200 pounds.
	Sheeting, plastic for covering bridge rail
	Winch and cable
Processing Equipment and Supplies	
	Sample containers, plastic, assorted [125, 250, 500, 1,000 milliliters (mL)]
	Sample containers, glass or polyfluorocarbon, assorted (125, 250, 500, 1,000 mL)
	Bottom-material splitting equipment: <ul style="list-style-type: none"> • Containers, plastic or glass, large, sealable, wide mouth, polyfluorocarbon lined caps • Funnel, large: plastic, stainless steel or glass • Mixing bowls: flat bottom, large: polyfluorocarbon, plastic, or stainless steel • Sieve cloth: stainless steel, brass, or plastic mesh • Sieve frame: plastic, brass, or stainless steel • Spoons, scoops, and spatulas: polyfluorocarbon, plastic, and/or stainless steel

Table 8-5. Checklist of field equipment and supplies—*Continued*

✓	Item
Cleaning Equipment and Supplies	
	Acid spill kit
	Apron
	Basins, clear/white plastic (three per site)
	Brushes, non-metallic
	Deionized water
	Detergent, phosphate free, 0.2 percent by volume
	Eyewash
	Gloves, noncontaminating (nonpowdered, disposable)
	Safety glasses
	Sealable plastic bags without colored closure strips
	Tap water
	Inorganic compounds: <ul style="list-style-type: none"> • Bottles, wash, for deionized water • Gloves, vinyl or latex, nonpowdered • Tissues, lint free, extra large • Tube or pipet jar, non-metallic
	Organic compounds: <ul style="list-style-type: none"> • Aluminum foil • Glass bottles, baked (check with laboratory) • Gloves, latex or nitrile, nonpowdered, disposable
Shipping Supplies	
	Bags, plastic ziplock, for Analytical Services Request forms
	Bags, plastic, large
	Boxes, sturdy
	Coolers, 1 and 5 gallons
	Forms, Analytical Services Request
	Ice
	Mailing labels (public and private shipping labels and return labels)
	Pens, pencils, noncontaminating, waterproof, permanent
	Sample container labels
	Sleeves, foam or bubble wrap
	Tape, fiber

Table 8-5. Checklist of field equipment and supplies—*Continued*

✓	Item
Miscellaneous Equipment and Supplies	
	Boat, motor, paddles/poles/oars, trailer
	Boots, hip
	Bug repellent, non-aerosol
	Calibration log books for all instruments
	Calculator
	Camera with film
	Drinking water
	Fire extinguishers
	First aid kit
	Flashlight with extra batteries
	Forms, field documentation
	Fuel
	Gloves, vinyl or latex, nonpowdered
	Historical discharge data for determining transit rates, verticals, depths
	Highway emergency kit
	Ice auger
	Keys for security locks
	Paper towels
	Personal flotation device
	Rain gear
	Safety vest
	Schedules, analytical with sample container requirements
	Shovel
	Soap, antibacterial
	Spray, plastic dip coating
	Station analysis and historical field measurement plots
	Station description files and detailed site location map
	Sunscreen
	Tag line
	Tape, polyfluorocarbon
	Tool kit
	Waders, chest