

Sample Collection/Creation Gear/Equipment Configurations

March 20, 2006 14:28:00

11113300

New Hampshire Dept. of Environmental Services

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	RIVBUCKET	Weighted river bucket	No specific size or shape except each bucket should be at least 2 1/2 gallons.
Water Sampler	WSOTH	Other	ARMP/VRAP	River Sampling Gear	Samples at VRAP stations are collected either by wading into the river/stream or by lowering a bucket from a bridge. In both cases the same methods are used. The samples should be collected either on the upstream side of the bridge or with the sampler facing upstream to insure the water does not flow over their legs or boots before entering the bucket. The bucket is filled with water and rinsed three times before the sample is collected. The rinse water should be poured downstream of where the sample is to be taken so the bottom sediment is not disturbed. When the bucket is being filled for the sample, water should be allowed to flow in as slowly as possible.
Water Sampler	WSOTH	Other	COMPTUBE	Composite Tube	Weighted Tygon (R) tube to collect water column composite.
Water Sampler	WSWB	Water bottle	WBBCH	Beach Water Bottle	8 oz Sterile Plastic Bottle
Water Sampler	WSWB	Water bottle	WBGRAB	Water Bottle Grab	Parameter specific bottles

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1117MBR

US EPA Region 7

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGEK	Ekman grab	EKMAN	Ekman Dredge	
Benthic Grab	BGPON	Ponar grab	PONAR	Ponar Dredge	
Electroshock	ESBP	Backpack electroshock	BK-PK	name	
Electroshock	ESBM	Boat-mounted electroshock	VVP-15	Large Stream Electroshock	For larger rivers an 18 foot work barge with a 2-cycle 65 hp Evinrude and a 2- cycle 25 hp Johnson kicker motor mounted on the left side. A Honda EX4000 is used to power a Coffelt Electronics VVP 15. This rig is capable of producing an output very close to 4000 watts and will maintain this for about 2 hours any longer than this requires lowering the power output to about 3500 watts or it will start throwing the breaker on the generator. The pulsator is capable of handling up tp 10,000 watts (AC) but the generator limits us to 4000 watts. From an output of about 1000 to about 2500 there doesn't seem to be a lot of difference in effectiveness. Once the power output is increased to about 3000 and over one can see a marked difference. The aluminum boat hull is used as the cathode. The anode is a 10 foot long fiberglass pole with a stainless steel loop at the end. The pulsators both have adjustable frequency and pulse width. When using pulsed DC current a frequency of about 80 hz seems to be the most effective. The pulse width is set to less than 20% so the duty cycle is lowered at the same output.
Electroshock	ESBM	Boat-mounted electroshock	VVP-2	Small Stream Electroshock	For smaller rivers and streams a 14 foot LOWE john boat with a 2- cycle 15 hp Johnson Outboard (in slow waters a Minn-Kota Endura 30 trolling motor is used). A Homelite 1750 watt generator and a Coffelt Electronics VVP-2 pulsator are used to collect fish. This rig has a maximum power output of about 1400 watts, it is not possible to maintain this power output because the generator will overheat and shut down. Instead a power output of about 1200 to 1000 watts (depending on the conductivity of the water) seems to work the best with this setup. The aluminum boat hull is used as the cathode. The anode is a 10 foot long fiberglass pole with a stainless steel loop at the end. The pulsators both have adjustable frequency and pulse width. When using pulsed DC current a frequency of about 80 hz seems to be the most

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1117MBR

US EPA Region 7

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
					effective. The pulse width is set to less than 20% so the duty cycle is lowered at the same output.
Net/Non-Tow	NNDF	D-frame net	D-NET	D-Net	
Net/Non-Tow	NNKK	Kick net	KICKNET	Kicknet	
Net/Non-Tow	NNMS	Minnow seine net	XFTSEIN	x foot seine	
Trap/Substrate	TROTH	Other	PERIPMTR	Periphytometer	
Water Sampler	WSOTH	Other	HWQC	Horiba Water Quality Checker	
Water Sampler	WSWB	Water bottle	128AMBGLAS	Glass, Amber, 128oz	
Water Sampler	WSWB	Water bottle	1LCUBI	Cubitainer, 1L, Plastic	
Water Sampler	WSWB	Water bottle	4LCUBI	Cubitainer, 4L, Plastic	
Water Sampler	WSWB	Water bottle	4OZVOA	VOA Vials (2), 4oz, Glass	
Water Sampler	WSWB	Water bottle	80OZGLASS	Glass, 80 oz.	

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1119USBR

Bureau of Reclamation

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	INTEGRATED	informal	

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11NPSWRD

National Park Service

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Non-Tow	NNKK	Kick net	NNKK_1M	Kick net - 1 meter square	
Water Sampler	WSOTH	Other	NPS_WSUNK N	NPS Unknown Water Sampler Gear	

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11TOX09

U. S. EPA Region 9 (Monitoring & Assessment Office)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Electroshock	ESBM	Boat-mounted electroshock	ELECTO-001	electroshocker	

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1CTDPHBM

Connecticut Department of Public Health

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	SAMPLE BOT	Water Sample Bottle	Sterile 125 ml Nalgene sample boittle with screw top lid is preferred.

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1VTDECWQ

Vermont Dept of Environmental Conservation

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSVC	Flexible vinyl tube	GEAR-03	Hose	Acid-cleaned "Flexogen" garden hose and composite bucket
Water Sampler	WSVC	Flexible vinyl tube	GEAR-06	Tygon Hose	Acid-cleaned tygon hose and plastic composite bucket
Water Sampler	WSKM	Kemmerer bottle	GEAR-02	Brass Kemmerer	Brass Kemmerer Sampler, unmodified
Water Sampler	WSKM	Kemmerer bottle	GEAR-05	Plastic Kemmerer	Brass Kemmerer Sampler, unmodified
Water Sampler	WSOTH	Other	GEAR-04	Suspended Sediment Sampler	USGS DH-48 or DH-59 Suspended Sediment Sampler. (Edwards, T.K. and G.D. Glysson. 1988. Field methods for measurement of fluvial sediment. U.S. Geological Survey Open File Report 86-531. Reston, VA)
Water Sampler	WSWB	Water bottle	GEAR-01	Bottle Grab	Subsurface bottle grab

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211WVOWR

Division of Water and Waste Management

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	BUCKET01	Water Bucket	
Water Sampler	WSKM	Kemmerer bottle	WVDEP#492 8	Wildco Kemmerer Sampler	Length of Tube = 56 Centimeters Radius = 5.5 Centimeters Volume = 5 Liters

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21ALBCH Alabama Department of Environmental Management

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	ALBCH	Water Grab Sample	

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21CAOCSD

Orange County Sanitation District California

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGVV	Van Veen grab	GC-001	Benthic VanVeen Grab	Teflon-coated or stainless steel modified double 0.1m ² Van Veen grab sampler is used for benthic sampling. The chemistry side of the sampler is cleaned and rinsed between successive drops to minimize potentials for sample contamination.
Miscellaneous/Other	MSHL	Hook and line	GC-004	Rig fishing	
Miscellaneous/Other	MSHY	Hydroacoustics	GC-005	RDI Broadband ADCP 300kHz	Teflon-coated or stainless steel modified double 0.1m ² Van Veen grab sampler is used for benthic sampling. The chemistry side of the sampler is cleaned and rinsed between successive drops to minimize potentials for sample contamination.
Net/Horizontal Tow	NTOT	Otter trawl	GC-002	Trawl Net	A Marinovich 7.62-m (25-foot) head rope otter trawl is used for the collection of all samples
Water Sampler	WSWB	Water bottle	GC-003	Water quality	<p>Real time data is collected using the CTD which consists of an array of sensors attached to either SeaBird Electronics SBE9-03/SBE 11 Deck Unit (SBE 9/11) or SBE 25 underwater unity, and color portable computer linked to the deck unit via an RS-232c serial port.</p> <p>Discrete sampling occurs using a Rosette system multi-bottle array. The array is controlled by a deck command unit that allows an operator to remotely actuate a sequence of water sampling bottles. At selected sampling depths, the operator triggers the deck command unit for sequential closing of the water bottles.</p>

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21DCBAWQ

District of Columbia Dept of Health, Water Quality Division

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Electroshock	ESBP	Backpack electroshock	WQM-003	Backpack electroshock	
Net/Vertical Tow	NVSC	Simple conical net	WQM-004	Conical tow net	Sample are collected with a 202mm and 48mm meash size
Water Sampler	WSBK	Bucket	WQM-001	Bucket	An alummium metals bucket with handle
Water Sampler	WSNA	Nansen bottle	WQB-002	Nansen bottle	

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21FLA

FL Dept. of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSVD	Van Dorn bottle	VD001	Van Doren #1	Two Liter
Water Sampler	WSWB	Water bottle	WSWB	Water Bottle	Filled directly

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21FLAVON

Avon Park Air Force Range - 18 ASOG DET 1 OL A/CEV

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	HORIBA	Horiba U22 YSI meter	
Miscellaneous/Other	MSOTH	Other	PYGMY	Pygmy Flow Meter	

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21FLBFA

FL Dept. of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	GRAB	BFA Collection Procedure	

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21FLBROW

Broward Co Dept of Natural Resource Protection (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSKM	Kemmerer bottle	BOTTLE1	Kemmerer sampler	2 liter size

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21FLCEN

Florida Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGEK	Ekman grab	EKMAN	Ekman dredge	
Benthic Grab	BGPONPT	Petite ponar grab	PONAR	Ponar dredge	
Water Sampler	WSVD	Van Dorn bottle	SWQVDB	Van Dorn Sampler	
Water Sampler	WSWB	Water bottle	WSQBTL	HDPE Bottle	

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21FLCOLL

Collier County Pollution Control (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	LKTRAFF	Lake Trafford	Five different water bottles are used to collect the water directly from the lake

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21FLEECO

Lee County (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGPONPT	Petite ponar grab	PONAR01	Petite ponar #1	Stainless steel
Benthic Grab	BGPONPT	Petite ponar grab	PONAR02	Petite ponar #2 SS	Stainless steel
Water Sampler	WSKM	Kemmerer bottle	KIMMERER0 1	Kimmerer sampler #1	
Water Sampler	WSKM	Kemmerer bottle	KIMMERER0 2	Kimmerer sampler #2	
Water Sampler	WSVD	Van Dorn bottle	VANDORN01	Van Dorn sampler #1	
Water Sampler	WSVD	Van Dorn bottle	VANDORN02	Van Dorn sampler #2	
Water Sampler	WSVD	Van Dorn bottle	VANDORN03	Van Dorn sampler #3	

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21FLFTM Florida Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSVD	Van Dorn bottle	VD1	VAN DORN	

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21FLGCWW

Gilchrist County Well Watch (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	WP01	Whirl-pak-thiosulfite	
Water Sampler	WSWB	Water bottle	B001	Plastic bottle	

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21FLGFWF

Florida Fish and Wildlife Conservation Commission

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	GC-007	Cole-Parmer Peristaltic pump	Cole-Parmer MasterFlex L/S Sampling Pump with Easy-Load II attachment.
Water Sampler	WSVD	Van Dorn bottle	GC-003	2 liter Van Dorn bottle	Plastic water sampler.
Water Sampler	WSVD	Van Dorn bottle	GC-004	5 liter Van Dorn bottle	Plastic water sampler.
Water Sampler	WSWB	Water bottle	GC-001	1 l HDPE bottle, clear	
Water Sampler	WSWB	Water bottle	GC-002	1 l HDPE bottle, dark	
Water Sampler	WSWB	Water bottle	GC-005	1 l HDPE bottle, VI clear	HDPE bottle is clamped in a weighted holder and lowered from surface to bottom producing a "vertically integrated" sample.
Water Sampler	WSWB	Water bottle	GC-006	1 l HDPE bottle, VI dark	HDPE bottle is clamped in a weighted holder and lowered from surface to bottom producing a "vertically integrated" sample.

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21FLHILL

Hillsborough County Environmental (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGPONPT	Petite ponar grab	PONAR1	Petite ponar	
Water Sampler	WSBK	Bucket	BUCKET	Plastic Bucket	
Water Sampler	WSKM	Kemmerer bottle	KEMMERER1	Kemmerer, PVC	
Water Sampler	WSPC	Pump/centrifugal	PUMP1	water puppy	
Water Sampler	WSWB	Water bottle	BOTTLE1	Sample bottle	
Water Sampler	WSWB	Water bottle	WHIRL PAK	Whirl Pak - no thiosulfate	

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21FLLCPC

Lake County Water Resource Management (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	GC002	WATER GRAB SAMPLER SS BUCKET	
Water Sampler	WSVD	Van Dorn bottle	GC001	WATER GRAB SAMPLER	

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21FLLOX

Loxahatchee River District (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSKM	Kemmerer bottle	GEAR-02	Bridge sampling device	

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21FLLOXB

Loxahatchee River District (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Corer	BCHC	Hand corer	CORER	Benthic hand corer	
Trap/Substrate	TRHD	Hester-dendy	H-D	Hester-Dendy	

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21FLMANA

Manatee County Environmental Management Dept (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	GCBK	Bucket with Line	Plastic bucket with suspension line for surface samples from bridges.
Water Sampler	WSOTH	Other	GCCS	Composite Water Sampler	A collection bottle and suspension line that fills slowly through a bleed orifice for taking depth-composite water samples.
Water Sampler	WSOTH	Other	GCMSS	Modified Sludge Sampler	Modified sluge sampler adapted to collect water samples 1m below surface.

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21FLNWFD

Northwest Florida Water District

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Corer	BCHC	Hand corer	GEAR 4	Hand Corer	Clear acrylic two inch tubes inserted into PVC device with check valve.
Benthic Dredge	BDAN	Anchor box dredge	BDAN	Petite Ponar Dredge	
Benthic Grab	BGPONPT	Petite ponar grab	GRAB 5	Petite Ponar Grab	Stainless steel ponar dredge.
Water Sampler	WSOTH	Other	GEAR 1	Horizontal Sample Bottle	Wildco Clear Acrylic Sample Bottle with messenger line.
Water Sampler	WSOTH	Other	GEAR 2	Vertical Sampler Bottle	Wildco clear acrylic bottle with messenger line.
Water Sampler	WSOTH	Other	GEAR 4	DH-59 Depth Intergrating samp	Scientific Instruments -DH59 Depth Intergrating Sediment Sampler with one pint glass bottles.
Water Sampler	WSWB	Water bottle	GEAR 3	Plastic grab sample bottle	Sterile plastic container typically one half gallon volume.

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21FLORAN Orange County Environmental Protection (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	1	Water Bottle	Sample bottle

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21FLPBCH Palm Beach County Environmental Resources Managemnt(Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSKM	Kemmerer bottle	KEMMERER	Kemmerer	Wildlife Supply Company Model Number 1520-C22 1000

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21FLPDEM

Pinellas County Dept. of Environmental Management (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGPONPT	Petite ponar grab	CBG-001	Petite Ponar Benthic Grab	
Miscellaneous/Other	MSVS	Visual sighting	CBG-002	SEAGRASS TRANSECT GRID	
Net/Non-Tow	NNCB	Center bag	CBG-003	CENTER BAG NET	
Water Sampler	WSBK	Bucket	CBG-004	Bucket	
Water Sampler	WSWB	Water bottle	ALPHA	Alpha	
Water Sampler	WSWB	Water bottle	CBG-005	Alpha Horizontal Sampler	3.2 L Alpha Horizontal Sampler

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21FLPNS Florida Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	GEARFLPNS	Sample containers	

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21FLPOLK

Polk County Water Resources (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	GC-05	Autoanalyzer Colorimetric	Manufacturer - LACHAT; Model Quikchem AE
Miscellaneous/Other	MSOTH	Other	GC-06	AA -Graphite Furnace	Manufacturer - GBC; Model - GF 3000
Miscellaneous/Other	MSOTH	Other	GC-07	AA Flame	Manufacturer - GBC; Model 932-AA
Miscellaneous/Other	MSOTH	Other	GC-08	Balance	Manufacturer - Mettler; Models - AE160 and PE4000
Miscellaneous/Other	MSOTH	Other	GC-09	Semi automated Autoanalyzer Co	Manufacturer - Lachat; Model - QuickChem AE
Miscellaneous/Other	MSOTH	Other	GC-10	TOC Analyzer	Manufacturer - Dohrmann; Model DC-80
Miscellaneous/Other	MSOTH	Other	GC-11	Turbidimeter	Manufacturer - Hach; Model - 18900
Miscellaneous/Other	MSOTH	Other	GC-12	UV-Visible Spectrophotometer	Manufacturer - Milton Roy; Model - 21D
Miscellaneous/Other	MSOTH	Other	GC-13	Conductivity Meter	
Miscellaneous/Other	MSOTH	Other	GC-14	DO Meter	
Miscellaneous/Other	MSOTH	Other	GC-15	Hot Air Incubator	
Miscellaneous/Other	MSOTH	Other	GC-16	Incubator	
Miscellaneous/Other	MSOTH	Other	GC-17	pH Meter	
Miscellaneous/Other	MSOTH	Other	GC-18	Titration Equipment	
Miscellaneous/Other	MSOTH	Other	YSI 6820	Water Sampler	Manufacturer - Milton Roy; Model - 21D
Miscellaneous/Other	MSVS	Visual sighting	GC-07	Secchi	Manufacturer - Milton Roy; Model - 21D
Miscellaneous/Other	MSVS	Visual sighting	GC-19	Secchi Disk	
Water Sampler	WSKM	Kemmerer bottle	GC-01	Kemmerer	
Water Sampler	WSNA	Nansen bottle	GC-03	Nansen Bottle	
Water Sampler	WSOTH	Other	GC-02	Water Sampler	Manufacturer - Milton Roy; Model - 21D

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21FLPOLK

Polk County Water Resources (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	GC-04	Whirl bag	
Water Sampler	WSOTH	Other	GC-19	Secchi	
Water Sampler	WSOTH	Other	YSI 6820	YSI Field Readings	Manufacturer - Milton Roy; Model - 21D
Water Sampler	WSWB	Water bottle	GC-02	Water Sampler	Manufacturer - Milton Roy; Model - 21D

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21FLRCID

Reedy Creek Improvement District - Env Services (FLORIDA)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	SW1-WS	SW1-WS	Stainless Steel Bucket

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21FLSFWM

South Florida Water Management District

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	MISC	Water Sampling Equipment	Not extra information
Water Sampler	WSNI	Niskin bottle	WSE1	WATER SAMPLING EQUIPMENT	No extra information

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21FLTPA Florida Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSVD	Van Dorn bottle	GRAB-1	Standard Method	

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21FLVEMD

Volusa County Environmental Health Lab (Florida)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	BAC-T	Bacteriological Water Sampler	This sample device consists of alligator clips attached to PVC pipe by a bent metal rod. It is specifically designed to be used with whirlpak bags.
Water Sampler	WSVD	Van Dorn bottle	DB-1	Horizontal Van Dorn Sampler	This is the Van Dorn used by the City of Daytona Beach
Water Sampler	WSVD	Van Dorn bottle	HVD-1	Horizontal Van Dorn Sampler	This is the original sampler which had a clear acrylic tube (13.875 in x 4.5 in), urethane end seals, surgical tubing, PVC caps, ABS drain valve, and a urethane vent.
Water Sampler	WSVD	Van Dorn bottle	HVD-2	Horizontal Van Dorn Sampler	This is the replacement sampler which was put in use in 1998. It has a PVC tube (15in x 4in), urethane end seals, black latex tubing, PVC caps, and a brass drain valve.

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21FLWPB

Florida Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Dredge	BDOTH	Other	PSL-006	manually operated dredge	
Miscellaneous/Other	MSOTH	Other	PSL-001	Sampling with instrumentation	
Miscellaneous/Other	MSOTH	Other	PSL-002	Misc. other	
Miscellaneous/Other	MSOTH	Other	PSL-010	Sampling with instruments	YSI, Hydrolab data sondes
Water Sampler	WSOTH	Other	PSL-005	Direct field measurement	
Water Sampler	WSWB	Water bottle	PSL-003	Manual collection in bottles	
Water Sampler	WSWB	Water bottle	PSL-004	Sampling water manually	

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21FLWQA

Florida Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	BOTTLE	sample bottle	Sample collected directly into sample bottle

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21GACRD

Georgia Coastal Resources Division

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	GASP01	Beach Sample Procedure 1	

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21HI

Hawaii Dept. of Health

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	BOTTLE02	Sterilized bags	500 ML, sterilized, disposable, clear, plastic, whirl-pak bags
Water Sampler	WSOTH	Other	CWB01	Instruments (electronic)	Hydrolab/Datasonde, or; YSI DO meter, or; Hach Turbidity meter.
Water Sampler	WSWB	Water bottle	BOTTLE01	Sample bottle	1 or 2 liter, white or brown, wide-mouth, covered, plastic bottle

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21IOWA

Iowa Dept. of Natural Resources

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	BEA01	IDNR Beach Water Sampler	
Water Sampler	WSWB	Water bottle	BEA02	IDNR Beach Water Sampler	Sample collected in glass amber bottles and composited in plastic bottle. Water transferred to clear plastic 100 mL bottle for analysis.
Water Sampler	WSWB	Water bottle	GSB01	GSB Water Sampler	Samples collected directly in bottles for corresponding analysis or in HDPE bottle and transferred to bottles for corresponding analysis. Bottles provided by UHL.
Water Sampler	WSWB	Water bottle	SNY01	Sny Magill Water Sampler	Samples collected in appropriate bottles for corresponding analysis. Bottles provide by UHL.
Water Sampler	WSWB	Water bottle	UHL01	UHL Water Sampler	Gallon HPDE bottle
Water Sampler	WSWB	Water bottle	UHL02	UHL Automated Sampler	Automated sampler collects a sample approximately every 20 minutes and run for 24 hours total. Samples brought to lab and then composited based on flow. Composite sample then transferred to appropriate container.
Water Sampler	WSWB	Water bottle	USGS01	USGS Groundwater	A tygon tube is attached to well spigot to reduce it down, using a variety of barbed fittings, to draw water into a multi-probe sampler flow-through chamber. A chemical resistant Y-fitting and stopcock are attached inline before the chamber to draw-off sample water. Field parameters (Spec Cond., pH, DO, Temp) are monitored until they have stabilized. After donning a pair of latex gloves, raw samples are usually collected first followed by filtered samples. Samples collected directly in bottles for corresponding analysis (bottles provided by UHL). All samples are then placed in a cooler, on ice if required, and sent or delivered to UHL for analysis.

Sample Collection/Creation Gear/Equipment Configurations

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21KAN001

Kansas Dept. of Health & Environment

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	002	stainless-steel pail.	stainless-steel pail 1 gal

Sample Collection/Creation Gear/Equipment Configurations

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21LABCH Louisiana Department of Health and Hospitals

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	LA_STDCM	LA Beach Standard Collection	

Sample Collection/Creation Gear/Equipment Configurations

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21MABCH Massachusetts Department of Public Health

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	WATERSAM PL	Water sample collection	

Sample Collection/Creation Gear/Equipment Configurations

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21MEBCH State Planning Office (EPA Region 1)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	SCCPG-01	Water Grab Sampling	

Sample Collection/Creation Gear/Equipment Configurations

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21MSBCH

Mississippi Department of Environmental Quality

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	BCH-GCRL	Beach Water Sample from GCRL	

Sample Collection/Creation Gear/Equipment Configurations

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21NC01WQ

NCDENR-DWQ

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	LABLINE	Labline composite sampler	

Sample Collection/Creation Gear/Equipment Configurations

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21NC02WQ

NCDENR-DWQ (2nd)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	ISCO	ISCO Automated Sampler	
Water Sampler	WSOTH	Other	LABLINE	LabLine Composite Sampler	

Sample Collection/Creation Gear/Equipment Configurations

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21NCBCH North Carolina Shellfish Sanitation Section

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	NCGS01	NC General WQ Sampling	

Sample Collection/Creation Gear/Equipment Configurations

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21NEB001

Nebraska Dept. of Environmental Quality

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGPON	Ponar grab	PONAR	Ponar Sample	
Electroshock	ESBP	Backpack electroshock	BACKPACK	Coffelt Backpack Unit	
Electroshock	ESBM	Boat-mounted electroshock	BOAT ELECT	Boat Electroshocker	
Electroshock	ESOTH	Other	ELECTROSH O	Electroshocker - Backpack /Boat	
Electroshock	ESSS	Stream-side electroshock	ELECT STRE	Streamside Electrofish	
Miscellaneous/Other	MSCC	Concussion	CONCUSS	Concussion Fishing	
Miscellaneous/Other	MSOTH	Other	MULTGEAR	Multiple Gear Sampling for Bug	Multiple types of gear for sampling macroinvertebrates
Miscellaneous/Other	MSOTH	Other	WATERSAM PL	OTHER	SEE SOP
Net/Non-Tow	NNDP	Dip net	FISH DIP	Fish Dipnets	
Net/Non-Tow	NNFY	Fyke net	FYKE NET	Fyke Net for fish sampling	
Net/Non-Tow	NNOTH	Other	FISH NET	Fish/Bug Collection Net/Screen	
Net/Non-Tow	NNSN	Seine net	SEINE NET	Seine Net	
Net/Non-Tow	NNPG	Set (passive) gill net	GILL NET	Gill Net Collections	
Net/Non-Tow	NNTRP	Trap net	TRAP NET	Trap Net for Fish	
Trap/Substrate	TRHD	Hester-dendy	HESTDEND	Hester-Dendy Sampler	
Trap/Substrate	TRNS	Natural substrate	TRAP SUBST	Trap NaturalSubstrate Sampling	
Water Sampler	WSBK	Bucket	WSBK	WATER BUCKET	SEE SOP
Water Sampler	WSWB	Water bottle	1	WATER BOTTLE	SEE SOP

Sample Collection/Creation Gear/Equipment Configurations

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21NEV-1 Nevada Dept. of Conservation and Natural Resources

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	NVGEAR-01	Nevada DEP sampling gear	

Sample Collection/Creation Gear/Equipment Configurations

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21NJDEP1

NJ Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGOTH	Other	BUG	BUG	
Benthic Grab	BGOTH	Other	SED.MET	Sed Metals Scoup Sieve Tray	High Density Polyethylene (HDPE) scoup, sieve and tray cleaned and rinsed with concentrated Hydrochloric Acid (HCl)
Benthic Grab	BGOTH	Other	SED.PEST	Sed Pesticides Scoop Tray Siev	Stainless Steel scoop, tray and sieve cleaned then rinsed with methanol
Benthic Grab	BGPONPT	Petite ponar grab	PONAR	Petite Ponar Grab Dredge	
Electroshock	ESBP	Backpack electroshock	BACKPACK	Smith-Root Backpack unit	
Electroshock	ESBM	Boat-mounted electroshock	SHOCKBOAT	Boat	
Electroshock	ESPR	Pram electroshock	BARGE	Smith-Root Barge	
Miscellaneous/Other	MSOTH	Other	BMW-MTLS	Dredge,Rake, and Tongs	Combination of dredging, raking, and tongs are used to get the clams/oyster from the subbottom. 10-15 clams are then put in a bag and placed in a cooler with ice.
Miscellaneous/Other	MSOTH	Other	BUG-1	Macroinvertebrates sampler	Mix of Surber and D-net samplers.
Miscellaneous/Other	MSOTH	Other	SCOOP	Scoop	Sediment samples
Miscellaneous/Other	MSOTH	Other	SONDE	Multi-Probe Data Sonde	
Net/Non-Tow	NNKK	Kick net	KICK-NET	Kick Net	Long Handle Kick Net
Water Sampler	WSKM	Kemmerer bottle	KEMMERER	Kemmerer bottle	Long Handle Kick Net
Water Sampler	WSOTH	Other	3030	US DH48 TM	
Water Sampler	WSOTH	Other	3034	US DH-76 TM	
Water Sampler	WSOTH	Other	3039	US D-77 TM	Sediment samples
Water Sampler	WSOTH	Other	3040	US DH77 TM MODIFIED	WITH TEFLON GASKET AND NOZZLE.
Water Sampler	WSOTH	Other	3044	US DH-81	
Water Sampler	WSOTH	Other	3045	US DH-81 with Teflon cap and n	

Sample Collection/Creation Gear/Equipment Configurations

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21NJDEP1

NJ Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	3050	SAMPLER, FRAME TYPE	PLASTIC BOTTLE W/TEFLON COLLAPS. BAG
Water Sampler	WSOTH	Other	3051	US DH-95 Teflon Bottle	PLASTIC BOTTLE W/TEFLON COLLAPS. BAG
Water Sampler	WSOTH	Other	3052	US DH-95 Plastic Bottle	PLASTIC BOTTLE W/TEFLON COLLAPS. BAG
Water Sampler	WSOTH	Other	3053	US D-95 Teflon Bottle	PLASTIC BOTTLE W/TEFLON COLLAPS. BAG
Water Sampler	WSOTH	Other	4020	Open-top Bailer	
Water Sampler	WSOTH	Other	8000	None	
Water Sampler	WSOTH	Other	8010	OTHER	
Water Sampler	WSPS	Pump/submersible	4040	Positive Pressure Pump	
Water Sampler	WSVD	Van Dorn bottle	ALPHA	Alpha bottle	
Water Sampler	WSVD	Van Dorn bottle	BETA	Beta Bottle	Beta bottle sampler is lowered to desired depth. Messenger is sent down line to close sampler. Sampler is returned to surface and sample is dispensed into sample containers.
Water Sampler	WSWB	Water bottle	3060	Weighted-bottle sampler	PLASTIC BOTTLE W/TEFLON COLLAPS. BAG
Water Sampler	WSWB	Water bottle	3070	A Grab Sampler	
Water Sampler	WSWB	Water bottle	CHURN+HAND	Churn + hand held bottle	Compositing Churn: 8 Liter Polypropylene cylindrical "churn" with lid and spigot at the bottom. Churn includes a scalloped mixing disk with holes and a perpendicular, polyethylene rod that passes through a hole in the lid. bottle: sample bottle as defined in sample container section
Water Sampler	WSWB	Water bottle	CHURN+HAND F	Churn+hand held bottle+Filter	Compositing Churn: 8 Liter Polypropylene cylindrical "churn" with lid and spigot at the bottom. Churn includes a scalloped mixing disk with holes and a perpendicular, polyethylene rod that passes through a hole in the lid. Bottle: sample bottle as defined in sample container section

Sample Collection/Creation Gear/Equipment Configurations

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21NJDEP1

NJ Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
					Filter: 0.45 micron single use filter connected to silicon tubing and used with a peristaltic pump.
Water Sampler	WSWB	Water bottle	CHURN+PVC	Churn + PVC bottle holder	<p>PVC Weighted Bottle Sampler: PVC pipe fitted with end cap and weight. An open bottle is inserted into a weighted holder that is attached to a handline for lowering. Sampling depth is restricted by the capacity of the bottle and the rate of filling.</p> <p>Compositing Churn: 8 Liter Polypropylene cylindrical "churn" with lid and spigot at the bottom. Churn includes a scalloped mixing disk with holes and a perpendicular, polyethylene rod that passes through a hole in the lid.</p> <p>Sample bottle: as defined in container section. Sample bottle fitted into PVC sampler.</p>
Water Sampler	WSWB	Water bottle	CHURN+PVC F	Churn+PVC bottle holder+Filter	<p>PVC Weighted Bottle Sampler: PVC pipe fitted with end cap and weight. An open bottle is inserted into a weighted holder that is attached to a handline for lowering. Sampling depth is restricted by the capacity of the bottle and the rate of filling.</p> <p>Compositing Churn: 8 Liter Polypropylene cylindrical "churn" with lid and spigot at the bottom. Churn includes a scalloped mixing disk with holes and a perpendicular, polyethylene rod that passes through a hole in the lid.</p> <p>Sample bottle: as defined in container section. Sample bottle fitted into PVC sampler.</p> <p>Filter: 0.45 micron single use filter connected to silicon tubing and used with a peristaltic pump.</p>
Water Sampler	WSWB	Water bottle	CHURN+WB	Churn + SS bottle holder	Weighted Bottle Sampler: Stainless Steel weighted-bottle sampler used to collect samples where flow velocities are less than the minimum requirement for isokinetic depth-integrating samplers and where the water body is too deep to wade. An open bottle is inserted into a weighted holder

Sample Collection/Creation Gear/Equipment Configurations

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21NJDEP1

NJ Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
					that is attached to a handline for lowering. Sampling depth is restricted by the capacity of the bottle and the rate of filling.
					Compositing Churn: 8 Liter Polypropylene cylindrical "churn" with lid and spigot at the bottom. Churn includes a scalloped mixing disk with holes and a perpendicular, polyethylene rod that passes through a hole in the lid.
					Sample Container: As defined in container section. Sample container is fitted into SS holder
Water Sampler	WSWB	Water bottle	HAND	Hand-held sample container	Sample is collected directly into a hand-held sample container
Water Sampler	WSWB	Water bottle	HANF	Hand held bottle + Filter	Sample is collected directly into a hand-held sample container.
					Filter: 0.45 micron single use filter connected to silicon tubing and used with a peristaltic pump.
Water Sampler	WSWB	Water bottle	PVC	PVC bottle holder	PVC Weighted Bottle Sampler: PVC pipe fitted with end cap and weight. An open bottle is inserted into a weighted holder that is attached to a handline for lowering. Sampling depth is restricted by the capacity of the bottle and the rate of filling.
Water Sampler	WSWB	Water bottle	PVCF	PVC bottle holder + Filter	PVC Weighted Bottle Sampler: PVC pipe fitted with end cap and weight. An open bottle is inserted into a weighted holder that is attached to a handline for lowering. Sampling depth is restricted by the capacity of the bottle and the rate of filling.
					Filter: 0.45 micron single use filter connected to silicon tubing and used with a peristaltic pump.
Water Sampler	WSWB	Water bottle	STERALIZED	Steralized Glass Bottle w/foil	
Water Sampler	WSWB	Water bottle	STICK	Bottle on the end of a pole.	

Sample Collection/Creation Gear/Equipment Configurations

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21NJDEP9

NWIS Data

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	LOWLEV-HG	Low Level Mercury Bottles	

Sample Collection/Creation Gear/Equipment Configurations

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21NMEX

NM Environmental Dept./SWQB

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	WS-001	Cubitainer	Standard industry cubitainer

Sample Collection/Creation Gear/Equipment Configurations

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21NYBCH

New York State Department of Health

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	GRAB-01	WATER GRAB SAMPLE- BOTTLE	
Water Sampler	WSOTH	Other	GRAB-02	WATER GRAB SAMPLE - WHIRL PAK	

Sample Collection/Creation Gear/Equipment Configurations

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21NYDECA

NYS Dept. of EnCon, Division of Water

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	WCOL	WCOL	POLYPRO, CRANE & SAMPLER, HAND HELD SAMPLER

Sample Collection/Creation Gear/Equipment Configurations

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21OHIO

Division of Surface water (Ohio)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Non-Tow	NNDP	Dip net	BUG-QUAL	qualitative bug sample	Triangular ring frame dip nets (#30 or #40 mesh) are utilized, supplemented with direct handpicking of rocks and other available substrates.
Trap/Substrate	TRHD	Hester-dendy	BUG-QUAN	quantitative bug sample	A modified multiple-plate artificial substrate sampler (Hester and Dendy 1962) is used. The sampler is constructed of 1/8 inch (3 mm) tempered hardboard cut into 3 inch (7.5 cm) square plates and 1 inch (2.5 cm) square spacers. A total of eight plates and twelve spacers are used for each sampler. The plates and spacers are placed on a 3 inch (7.5 cm) long, 1/4 inch (6 mm) diameter eyebolt so that there are three single spaces, three double spaces, and one triple space between the plates. The total surface area of the sampler, excluding the eyebolt, approximates 1 square foot (roughly 0.1 square meter). A sampling unit consists of a composite cluster of five substrates tied to a construction block .

Sample Collection/Creation Gear/Equipment Configurations

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21ORBCH

Oregon Department of Human Services

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	SPL_SALTM P	Salinity and Temperature	
Water Sampler	WSWB	Water bottle	SPL_WTRGR B	Water Grab Sample	

Sample Collection/Creation Gear/Equipment Configurations

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21PA Pennsylvania Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Electroshock	ESOTH	Other	GSHOCK	Varied Shock Methods	

Sample Collection/Creation Gear/Equipment Configurations

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21RIBCH

Rhode Island Department of Health

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	FOLLOWUP	Follow Up Sample	
Water Sampler	WSWB	Water bottle	PIPERUNOFF	Pipe/Runoff Sample	
Water Sampler	WSWB	Water bottle	ROUTINE	Routine Sampling	
Water Sampler	WSWB	Water bottle	WETWEATH ER	Wet Weather Sampling	

Sample Collection/Creation Gear/Equipment Configurations

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21SC60WQ

SC Dept. of Health & Environmental Control

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	GEAR-1	Bucket	
Water Sampler	WSWB	Water bottle	SHFISH	Shellfish Sanitation Sampling	

Sample Collection/Creation Gear/Equipment Configurations

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21SCBCH

SC Dept of Health & Environmental Control

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	250ML	250ml Water Bottle	

Sample Collection/Creation Gear/Equipment Configurations

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21SCESOP

SC Dept. of Health & Environmental Control

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSPAL	Pump/air lift	ISCO	ISCO Portable Sampler	Programmable liquid sampler designed for composite sampling.
Water Sampler	WSWB	Water bottle	SWGB	Surface Water Grab Bottle	1 liter capacity.

Sample Collection/Creation Gear/Equipment Configurations

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21SCGW

SC Dept. of Health & Environmental Control

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	250ML	250 ml Water Bottle	

Sample Collection/Creation Gear/Equipment Configurations

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21SCSANT

Santee Cooper - South Carolina Public Service Authority

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSVD	Van Dorn bottle	001	2.2 Liter Van Dorn Sampler	2 liter horizontal sampler

Sample Collection/Creation Gear/Equipment Configurations

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21SCSHL

SC Dept of Health and Environmental Control

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	SHFISH	One liter bottle	

Sample Collection/Creation Gear/Equipment Configurations

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21SDAK01

SD Dept of Environmental & Natural Resources

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Corer	BCGR	Gravity corer (generic)	COREGRAVT Y	Gravity Corer	
Net/Non-Tow	NNDF	D-frame net	DNET	D-Frame Net	
Net/Non-Tow	NNDG	Drift gill net	GILL001	Gill Net	
Net/Non-Tow	NNFY	Fyke net	FISH001	Fish001	
Trap/Substrate	TRRB	Rock basket	ROCKBASKE T	Rock Basket	
Water Sampler	WSBK	Bucket	BUCKET	Bucket	
Water Sampler	WSOTH	Other	INTER	Inter	
Water Sampler	WSPNS	Pump/non-submersible	PUMPNONS UB	Non-Submersible pump	
Water Sampler	WSPS	Pump/submersible	PUMPSUBM ER	Submersible water pump	
Water Sampler	WSWB	Water bottle	BOTTLE	Water Bottle	

Sample Collection/Creation Gear/Equipment Configurations

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21TXBCH Texas General Land Office

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	SPL_WTRGR B	Sample Water Grab	

Sample Collection/Creation Gear/Equipment Configurations

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21WABCH Washington State Department of Ecology

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	D6503-99	ENTEROLERT	
Water Sampler	WSWB	Water bottle	SPL_WTRGR B	water grab	

Sample Collection/Creation Gear/Equipment Configurations

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21WIBCH

Wisconsin Department of Natural Resources

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	SP001	water grab sample	

Sample Collection/Creation Gear/Equipment Configurations

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31DELRBC

Delaware River Basin Commission

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSNI	Niskin bottle	NISKIN	Niskin Bottle	General Oceanics large Niskin Bottle

Sample Collection/Creation Gear/Equipment Configurations

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31DRBCSP

Delaware River Basin Commission

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Non-Tow	NNDF	D-frame net	D-FRAME	D-frame net for tribs	595u, used for tributary macroinvertebrate assessments
Net/Non-Tow	NNRC	Rectangular net	BFN	Big-River Frame Net	
Net/Non-Tow	NNRC	Rectangular net	RECTANG	Rectangular Frame Net	
Water Sampler	WSWB	Water bottle	BRIDGE	Water Bottle for Bridges	500ml bottle attached to angle iron suspended from 100 ft rope
Water Sampler	WSWB	Water bottle	TRISTATE	Tri State Canoe Sample Collect	Sample Collection similar to BRIDGE methodology but uses canoe for collections. Employs same sampler but uses canoe for access rather than bridge access
Water Sampler	WSWB	Water bottle	UPDE	UPDE Water Bottle	Either a bottle/ rope apparatus or sample bottle used for collection

Sample Collection/Creation Gear/Equipment Configurations

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31ISC2RS

Interstate Sanitation Commission

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	ISC-GEAR-1	Bucket Water Sampling	Sufficient bucket size to collect the sample based on the specific parameter determination.
Water Sampler	WSKM	Kemmerer bottle	ISC-GEAR-2	Kemmerer Water Sampling	Sufficient bottle size to collect the sample based on the specific parameter determination.
Water Sampler	WSWB	Water bottle	ISC-GEAR-3	Water Bottle Sampling	Sufficient bottle size to collect the sample based on the specific parameter determination.

Sample Collection/Creation Gear/Equipment Configurations

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31ORWUNT

Ohio River Sanitation Commission

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSPB	Pump/bailer	01	Bailer	
Water Sampler	WSWB	Water bottle	02	water bottle	

Sample Collection/Creation Gear/Equipment Configurations

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42SRBCWQ

Susquehanna River Basin Commission

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	GC-002	Wading Rod Velocity Meter	
Miscellaneous/Other	MSOTH	Other	GC-003	Thermometer	
Miscellaneous/Other	MSOTH	Other	GC-004	pH Meter	
Miscellaneous/Other	MSOTH	Other	GC-005	Conductivity Meter	
Miscellaneous/Other	MSOTH	Other	GC-006	Beaker-Pipette Titration	
Miscellaneous/Other	MSOTH	Other	GC-007	DO Meter	
Water Sampler	WSOTH	Other	GC-001	PS-89 Torpedo Sampler	

Sample Collection/Creation Gear/Equipment Configurations

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AQUINNAH

Wampanoag Tribe of Gay Head (Aquinnah) - Massachusetts

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	CHLR-A	Chlorophyll- a	1 Liter brown bottles kept chilled in a cooler until delivery to lab

Sample Collection/Creation Gear/Equipment Configurations

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ARDEQH20 Arkansas Dept. of Environmental Quality

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	AMBIENT	Ambient monitoring samples	

Sample Collection/Creation Gear/Equipment Configurations

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CADWR

California Department of Water Resources

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	PUMP002	Flow through pump	
Water Sampler	WSBK	Bucket	BUCKET-001	plastic bucket	
Water Sampler	WSOTH	Other	PUMP-003	Flow Through Pump	
Water Sampler	WSPS	Pump/submersible	PUMP001	Submerssible pump	
Water Sampler	WSVD	Van Dorn bottle	VD001	VanDorn bottle	

Sample Collection/Creation Gear/Equipment Configurations

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CALSWAMP

CA Surface Water Monitoring Program (California)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	SW1	2020 Turbidimeter LaMotte code	
Water Sampler	WSOTH	Other	SW10	pH Tester 3	
Water Sampler	WSOTH	Other	SW11	Scientific Instr. Inc	
Water Sampler	WSOTH	Other	SW12	Scientific Instr. Inc. Price T	
Water Sampler	WSOTH	Other	SW13	Yellow Springs Water Quality M	
Water Sampler	WSOTH	Other	SW2	Digemeter CMD 900	
Water Sampler	WSOTH	Other	SW3	Extech Instruments	
Water Sampler	WSOTH	Other	SW4	Global Flow Probe	
Water Sampler	WSOTH	Other	SW5	HACH 2100A	
Water Sampler	WSOTH	Other	SW6	Hach Field Kit	
Water Sampler	WSOTH	Other	SW7	Hydrolab DS3 Water Quality Met	
Water Sampler	WSOTH	Other	SW8	Marsh-McBurney	
Water Sampler	WSOTH	Other	SW9	NotRecorded	

Sample Collection/Creation Gear/Equipment Configurations

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CAPECRD		City of Cape Coral (Florida)			
Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGPONPT	Petite ponar grab	BGPONPT	WILDCO Petite Ponar Dredge	
Miscellaneous/Other	MSOTH	Other	HFSCIDRT	HF Scientific DRT-100B Turbid	HF Scientific DRT-100B Turbidimeter
Miscellaneous/Other	MSOTH	Other	HYDRSURV3 1	Hydrolab Surveyor 3 & H2O, #1	Hydrolab Surveyor 3 & H2O, #1. Has dissolved oxygen, pH, redox, temperature, salinity & conductivity probes.
Miscellaneous/Other	MSOTH	Other	HYDRSURV3 2	Hydrolab Surveyor 3 & H2O, #2	Hydrolab Surveyor 3 & H2O, #2. Has dissolved oxygen, pH, temperature, salinity, conductivity, depth and turbidity probes.
Miscellaneous/Other	MSOTH	Other	SECCHI	Secchi Disk, 8"(20cm)	Secchi Disk , 8" (20cm) attached to a 50 meter fiberglas measuring tape.
Miscellaneous/Other	MSOTH	Other	SURFGRAB	Surface grab sample	Surface sample grabbed by hand using sample bottle or Whirl-Pak sample bag.
Miscellaneous/Other	MSOTH	Other	SWOFFER210 0	Swoffer 2100-LX Current Meter	Swoffer Current Velocity Meter, 2100-LX
Miscellaneous/Other	MSOTH	Other	TURBOMETE R	Davis Turbo Meter Wind speed	Davis Turbo Meter Wind speed indicator
Miscellaneous/Other	MSOTH	Other	YSI33MSCT	YSI 33M SCT Meter	Yellow Springs Instruments Model 33M salinity-conductivity-temperature meter
Miscellaneous/Other	MSOTH	Other	YSI58DO	YSI Model 58 DO Meter	Yellow Springs Instruments Model 58 Dissolved Oxygen Meter
Water Sampler	WSVD	Van Dorn bottle	WSVD3	Van Dorn Water Sampler, 3.2L	Van Dorn Sampler, 3.2 liter capacity. Attached to 25 foot rope with messenger.

Sample Collection/Creation Gear/Equipment Configurations

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CCAMP

Central Coast Ambient Monitoring Program (California)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	HORIBA01	Horiba Multi-analyte probe	
Water Sampler	WSOTH	Other	HYDRO4A01	Hydrolab DataSonde 4a	
Water Sampler	WSOTH	Other	HYDRO4A02	Water Quality Multi-probe	
Water Sampler	WSWB	Water bottle	WSWB1	Sample Bottle	

Sample Collection/Creation Gear/Equipment Configurations

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CENWWEDH U.S. Army Corps of Engineers Walla Walla District

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSOTH	Other	WSOTH	300 mL BOD Bottle	
Water Sampler	WSWB	Water bottle	WATER SAMP	Water Sample	

Sample Collection/Creation Gear/Equipment Configurations

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CHATFLD

Chatfield Reservoir (Colorado)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSVS	Visual sighting	VISUAL	Visual Estimation -Human Eye	

Sample Collection/Creation Gear/Equipment Configurations

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CITYFTCO **City of Fort Collins (Colorado)**

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	SG-001	Sampling Gear, River	

Sample Collection/Creation Gear/Equipment Configurations

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COE/ISU

Des Moines River - Corp of Engineers (IOWA)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	CCE01	River/Surface Water Collection	Samples collected in DO dunker or polyethylene pail and then transferred to bottles
Water Sampler	WSVD	Van Dorn bottle	CCE02	Lake Collection	Samples collected in Van Dorn water sampler

Sample Collection/Creation Gear/Equipment Configurations

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CORIVWCH

The Rivers of Colorado Water Watch Network (RiverWatch)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Non-Tow	NNDF	D-frame net	7	18" x 8" Modified D-net	Stainless steel rod bent into a rectnagle, attached to a 1 1/8" hardwood pole with a collar and two removable stainless steel bolts. The net is 500 micron mesh.
Net/Non-Tow	NNOTH	Other	8	600 Micron Sieve	
Water Sampler	WSOTH	Other	5	Syringe	60 mL syringe for metals collection.
Water Sampler	WSOTH	Other	6	Filter	2 micron
Water Sampler	WSWB	Water bottle	1	2 oz Nalgene	For metals sampling, filtered and non-filtered.
Water Sampler	WSWB	Water bottle	2	16 oz Plastic	Nitrate, Phosphorus, and T Ammonia
Water Sampler	WSWB	Water bottle	3	32 oz Plastic Jug	Cl, SO4, and TSS sampling.
Water Sampler	WSWB	Water bottle	4	8 oz Plastic	NP nutrient bottle.

Sample Collection/Creation Gear/Equipment Configurations

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CT_DEP01

Connecticut Dept. of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	CTBCH125	Sterile Nalgene 125 ml bottle	Sterile nalgene water bottle

Sample Collection/Creation Gear/Equipment Configurations

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DEMOTEST

The Commission for a Good Clean Chesapeake Bay

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGBM	Boomerang grab	CBG-008	.25 sq meter- ID-67	This grab has been modified to increase reliability, see Manning, 1987, pp 129-134.
Benthic Grab	BGSM	Smith-McIntire grab	CBG-007	.25 sq meter-ID-3425	Standard Grab, with no modifications.
Electroshock	ESBM	Boat-mounted electroshock	CBG-013	Manning Hot-Shot 2000	This is a custom design boat mounted shocker from the Manning Scientific & Correctional Facility Supply Company. This unit is equipped with the exclusive "Manning Deep Fry" option which increases the AMP range of a normal shocker 200 fold. Properly adjusted, this unit combines aspects of a fisheries evaluation with a first-class dinner on-site.
Miscellaneous/Other	MSHL	Hook and line	CBG-015	Fly Rod, 3 lb test	This is a high performance graphite fly rod equipped with 3 lb test and is used for collection of Red Drum, Striper, Sea Trout, Bone Fish. In the hands of an expert, a very effective collection configuration.
Miscellaneous/Other	MSOTH	Other	CBG-016	Scalpel, #3 Blade	Sharp.
Net/Horizontal Tow	NTOT	Otter trawl	CBG-014	Chesapeake Bay Otter Trawl-1	<p>This is a highly modified Otter Trawl, it was customized designed by the Manning Scientific & Correctional Facility Supply Company, it incorporates the exclusive "Manning Escape Proof" feature. The main body of the net is constructed of #9 twine, 1-1/2" str. mesh and bag of the trawl is made of #18 twine, 1-1/2" str. mesh. Both of these panels are dipped in commercial grade green net dip to increase net life. The top and bottom lines of the trawl extend 4' and are attached through holes at the back of the trawl doors. The top line of the trawl opening is constructed 3/8" PolyDac line and has four floats (PVC foam, 2-1/2" dia., 1-1/2" long) spaced along its entirety. The bottom line of the trawl mouth is constructed of 3/8" PolyDac line and is weighted by a 6 ft length of 1/4" chain.</p> <p>The doors are pentagonal in shape and are made of 3/8" marine plywood and weighted with a steel bar (iron) along the inside length. The doors measure 36" along their outer edge, 18" along their back, and 31" along the inside edge where the irons are located. Each door is outfitted with four chains that are attached to the door at one end and joined with a shackle at the other. The distance between the trawl doors is kept constant with the aid of a 25' long tickler chain.</p>

Sample Collection/Creation Gear/Equipment Configurations

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DEMOTEST The Commission for a Good Clean Chesapeake Bay

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
					A #35 Delta 1/8" knotless nylon mesh liner is sewn at the mouth of the bag and tapers to the end of the bag. The bag is 10 ft long with the linner running the entire length.
Net/Non-Tow	NNKK	Kick net	CBG-010	.25 sq meter - ID -8965	Standard kick-net with 1 mm mesh.
Net/Non-Tow	NNKK	Kick net	CBG-011	.5 sq meter - ID- 543	Stadnard .5 sq meter kick net with 3mm mesh.
Net/Vertical Tow	NVWI	Wisconsin-style net	CBG-009	Plankton Net-ID-098	This is the standard Wisconsin Plankton net- with a .25 mm cod end.
Water Sampler	WSNA	Nansen bottle	CBG-001	1 Liter-S/N-239876	
Water Sampler	WSNA	Nansen bottle	CBG-002	1-Liter-S/N-437687	
Water Sampler	WSNA	Nansen bottle	CBG-003	1-Liter-S/N-387621	
Water Sampler	WSNA	Nansen bottle	CBG-004	1-Liter-S/N-906345	
Water Sampler	WSNA	Nansen bottle	CBG-005	5-Liter-S/N-108913	
Water Sampler	WSNA	Nansen bottle	CBG-006	5-Liter-S/N-189056	

Sample Collection/Creation Gear/Equipment Configurations

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EMAP-CS

Environmental Monitoring and Assessment Program

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Corer	BCHC	Hand corer	CORER-1	Hand Corer, 6 in dia	
Benthic Grab	BGPONPT	Petite ponar grab	PPG-NCAGU	Petite ponar grab:NCA-Gulf	Petite ponar grab used in NCA-Gulf 2000 by Alabama at all stations
Benthic Grab	BGVV	Van Veen grab	VAN-VEEN-1	Van Veen grab samplers	For EMAP-Estuarines Virginian Province, National Coastal Assessment-Northeast, and National Coastal Assessment-Gulf 2000, a 1/25 (0.04) m ² , Kynar-coated stainless steel, Young-modified Van Veen grab sampler was used to collect sediments. This grab sampled an area of 440 cm ² and had a maximum depth of penetration in the sediment of 10 cm. For EMAP-West, either a 0.1 or 0.04 m ² Young-modified Van Veen sediment grab made of Kynar-coated stainless steel was used to collect sediments.
Electroshock	ESSS	Stream-side electroshock	ESHOC-NCA	Electroshock equipment in NCA	Electroshock equipment was used in NCA-Gulf 2000 by state of Alabama at a few stations
Net/Horizontal Tow	NTOT	Otter trawl	OTTER-01	Otter Trawl for Fish/Shellfish	The EPA standard fish trawl was conducted which filters fish from the near bottom waters. The trawl net is a funnel-shaped high-rise sampling trawl. The net includes a 16 meter tow line, a chain sweep, 5 cm mesh wings, and a 2.5 cm cod end. Fish were herded into the net by ground wire and an overhanging panel. Standard trawls were 10 ± 2 minutes in duration with a towing speed of 2-3 knots through the water against the prevailing current (1-3 knots relative to the bottom).
Net/Horizontal Tow	NTSV	Single-vessel operated tow net	TRWL-NCANE	High-rise trawl: 2000 NCA-NE	The EPA standard fish trawl was conducted which filters fish from the near bottom waters. The trawl net is a funnel-shaped high-rise sampling trawl. The net includes a 16 meter tow line, a chain sweep, 5 cm mesh wings, and a 2.5 cm cod end. Fish were herded into the net by ground wire and an overhanging panel. Standard trawls were 10 ± 2 minutes in duration with a towing speed of 2-3 knots through the water against the prevailing current (1-3 knots relative to the bottom). Different state cooperative agreements used different standard procedures: CT, MA and RI trawl duration was 20 minutes; NH was 4 minutes. Therefore, fish community measures cannot be easily compared across all states.

Sample Collection/Creation Gear/Equipment Configurations

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EMAP-CS

Environmental Monitoring and Assessment Program

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Non-Tow	NNBS	Beach seine net	SNET-NCAGU	Seine net used in NCA-Gulf	Seine net used in NCA-Gulf state of Florida at a few stations
Water Sampler	WSKM	Kemmerer bottle	KEMMER-1	EMAP-West CA/OR water sampler	EMAP-West CA/OR water sampler
Water Sampler	WSNI	Niskin bottle	NISKIN-1	Niskin Water Bottle:EMAP-West	EMAP-West WA water sampler; 1.7 l for Washington State
Water Sampler	WSOTH	Other	CTD 25	Seabird model 25	Seabird model 25 used by NCA-NY
Water Sampler	WSOTH	Other	CTD SBE-19	Sea-bird SBE-19	Sea-bird SBE-19 used by NCA-CT
Water Sampler	WSOTH	Other	HYDRO1	Hydrolab Datasonde	Hydrolab DataSonde 3 multi-probe data logging units were used. The software program Procomm was used to set up and download profile logging runs to a laptop computer.
Water Sampler	WSOTH	Other	LI-COR	Li-Cor Sensors: EMAP-West	Li-Cor LI-193SA and Li-Cor LI-190SA were used to measure underwater photosynthetically active radiation (SubPAR) and ambient (terrestrial) photosynthetically active radiation (TerPar), respectively.
Water Sampler	WSOTH	Other	YSI-NCA	YSI model 6600_M	YSI model 6600_M used by NCA-NY/NH
Water Sampler	WSVD	Van Dorn bottle	VAN-DORN-1	Van Dorn Sample Bottle	Van Dorn Sample Bottle used by Virginian Province.
Water Sampler	WSWB	Water bottle	GOFLO	Go-Flo®_5L sampling bottle	A seawater sample was collected from 1m below the surface and 1m above the bottom with a 5L Go-Flo® sampling bottle. At some shallow locations (water depth < 3m) only one mid-depth water sample was taken.

Sample Collection/Creation Gear/Equipment Configurations

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HI301H

City and county of Honolulu

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSVD	Van Dorn bottle	SUBSURF	Van Dorn sampler	
Water Sampler	WSWB	Water bottle	MICROSURF	Surface grab Micro	

Sample Collection/Creation Gear/Equipment Configurations

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IL_EPA

Illinois EPA

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	IL_EPA	DEFAULT GEAR CONFIGURATION	

Sample Collection/Creation Gear/Equipment Configurations

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KWMNDATA

Keystone Watershed Monitoring Network (Pennsylvania)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSVD	Van Dorn bottle	MSLM	Van Dorn for Mountain Springs	

Sample Collection/Creation Gear/Equipment Configurations

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LAKELAND		City of Lakeland (Florida)			
Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGEK	Ekman grab	L2	Ekman Dredge	used in mucky substrates for benthic sampling
Benthic Grab	BGPONPT	Petite ponar grab	PONAR	petite ponar dredge	Used in sandy substrates for benthic sampling
Miscellaneous/Other	MSOTH	Other	L2A	dip net	Benthic net with #30 mesh size with one replacement net, used for sampling macroinvertebrates
Water Sampler	WSOTH	Other	BACT	Whirl Pak	Plastic bag used to collect bacteria samples
Water Sampler	WSOTH	Other	L1	Van Dorn Sampler	Used to collect water samples from various city lakes
Water Sampler	WSOTH	Other	L1A	Hydrolab	Equipment used to analyze data field water samples
Water Sampler	WSOTH	Other	L2	secchi disk (depth finder)	used to determine secchi of water
Water Sampler	WSWB	Water bottle	L1	16oz Fisherbrandclear containe	plastic 16 oz container for water quality samples
Water Sampler	WSWB	Water bottle	L1A	1 L brown Nalgene bottle	Brown bottle for collecting chlorophyl samples
Water Sampler	WSWB	Water bottle	L2	1 G Nalgene container	Clear 1 G container for benthic sample collection
Water Sampler	WSWB	Water bottle	L3	Nalgene 125ml brown bottle	used for phytoplankton collection

Sample Collection/Creation Gear/Equipment Configurations

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MDEDAT04

MD Dept. Environment In House Water Data

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	BUCKET	Bridge Sample Collection	
Water Sampler	WSOTH	Other	BOTTLE	Land Collection from a Bank	
Water Sampler	WSPS	Pump/submersible	PUMP	Boat Sampling	

Sample Collection/Creation Gear/Equipment Configurations

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MDEDAT09

Maryland Dept. of the Environment Risk Assessment Data

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Horizontal Tow	NTOT	Otter trawl	CBFT-009	Chesapeake Bay Otter Trawl	
Net/Non-Tow	NNDP	Dip net	CBFT-007	Chesapeake Bay Fish Tissue	

Sample Collection/Creation Gear/Equipment Configurations

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MEDEP

Maine Department of Environmental Protection

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	PER-1	PERIPHYTOMETER	

Sample Collection/Creation Gear/Equipment Configurations

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MNPCA1

Minnesota Pollution Control Agency

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	TUBE	Inverted Transparency Tube	1 1/4 inch diameter plexiglass tube, normally used to measure water transparency, inverted and pressed into soft sediments, which are then pushed into a sample bottle with a stick from the opposite end of the tube.
Water Sampler	WSBK	Bucket	SIM	Simple Open Plastic Bucket	Simple Open Plastic Bucket with a bail for suspending from a bridge with a rope and lowering into a waterbody to collect water
Water Sampler	WSOTH	Other	AS	Automatic Sampler	
Water Sampler	WSOTH	Other	DI	Depth Integrating (USGS type)	
Water Sampler	WSOTH	Other	OTHER	Other	
Water Sampler	WSPAL	Pump/air lift	PERITEFTUB	Peristaltic Pump w Teflon Tube	Peristaltic pump with internal silicone tubing connected to a teflon collection tube. When collecting dissolved sample fraction, a capsule filter is attached to the outlet of the pump.
Water Sampler	WSWB	Water bottle	ICE1	Ice Conditions Water Sampler	Straight pole with open bottle attached for lowering through a hole in ice to collect from flow below the ice.
Water Sampler	WSWB	Water bottle	ROD	Telescoping Rod with Bottle	Telescoping rod with a plastic bottle attached to reach 15 feet from bank or pier into streamflow.
Water Sampler	WSWB	Water bottle	WB	Weighted Bucket with Cover	Heavy walled plastic bucket with weight encased in the bottom, a bail for suspending with a rope into a waterbody, and a cover with an inlet and an outlet, designed for water sampling and collecting water into a BOD bottle with minimal aeration from turbulence.

Sample Collection/Creation Gear/Equipment Configurations

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MNPCAP

Minnesota Pollution Control Agency

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSPB	Pump/bailer	BAILER	Bailer	5 gallon bucket, HDPE bailer and rope.
Water Sampler	WSPNS	Pump/non-submersible	SHALLOW	Shallow monitoring well	Non-submersible pump, 3/8in HDPE (rigid) tubing and 3/8in Silicon (flexible) tubing.
Water Sampler	WSPS	Pump/submersible	DEEP	Deep monitoring well	Submersible pump and controller.
Water Sampler	WSPS	Pump/submersible	DOMESTIC	Domestic well	Submersible pump and 30ft of 5/8-in garden hose.

Sample Collection/Creation Gear/Equipment Configurations

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MONT-DEQ

Montana Department of Environmental Quality

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Non-Tow	NNDF	D-frame net	NET-DF	D Frame Net	
Net/Non-Tow	NNKK	Kick net	NET-KICK	Net, Traveling Kick	
Trap/Substrate	TRHE	Hess sampler	HESS	Hess Sampler	
Trap/Substrate	TRSU	Surber sampler	SURBER	Surber Sampler	
Water Sampler	WSOTH	Other	FLBS-IVSG	FLBS Integrated Vertical Gear	Nalgene PUR ester grade tubing. An individual vertical integrated sample collected in a Nalgene PUR ester grade hose, mixed in a HDPE carboy, and a single subsample poured into a sample bottle. Clean hose, carboy and sample bottle are rinsed on site per FLBS SOP.
Water Sampler	WSPB	Pump/bailer	GW-BAILER	Ground Water - Bailer	Specifications vary for bailers used in the field to collect ground water samples.
Water Sampler	WSVD	Van Dorn bottle	FLBS-WSVD	FLBS Water Sampler, Van Dorn	Van Dorn Water Sampler
Water Sampler	WSWB	Water bottle	BACT	Sample Bottle, sterile, 100 ml	100+ ml sterile polyethylene sample bottles, pre-preserved with Sodium Thiosulfate for the collection of bacteriological samples. Sample bottles are provided by analytical laboratory.
Water Sampler	WSWB	Water bottle	SB -1L	Sample Bottle, 1.0 L	1.0 liter polyethelyne sample bottle, laboratory supplied, narrow mouth with screw cap lid and teflon liner.
Water Sampler	WSWB	Water bottle	SB-X3	Sample Bottles, 2.5 L total	1 L & 500 ml Polyethylene collection bottles, laboratory supplied. Standard collection procedure is to collect 3 bottles, 1 L common ions, solids, etc, 1 L nutrients, & 0.5 L metals for analytical suite.

Sample Collection/Creation Gear/Equipment Configurations

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MRSENVMB

Marine Research

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	GRAB	Effluent Grab Sample	
Water Sampler	WSPS	Pump/submersible	COMPOSITE	Effluent Composite Sampler	

Sample Collection/Creation Gear/Equipment Configurations

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MT-DEQ		Montana DEQ			
Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Non-Tow	NNDF	D-frame net	JAB	Jab Macroinvertebrate Sample	
Net/Non-Tow	NNDF	D-frame net	KICK	Traveling Kick-Net	A standard D-frame net is used to collect macroinvertebrate samples in the traveling kick-net procedure.
Trap/Substrate	TRHE	Hess sampler	HESS	Hess Sampler	A standard D-frame net is used to collect macroinvertebrate samples in the traveling kick-net procedure.
Water Sampler	WSOTH	Other	FLBS-IVSG	FLBS Integrated Vertical Gear	Nalgene PUR ester grade tubing. An individual vertical integrated sample collected in a Nalgene PUR ester grade hose, mixed in a HDPE carboy, and a single subsample poured into a sample bottle. Clean hose, carboy and sample bottle are rinsed on site per FLBS SOP.
Water Sampler	WSPB	Pump/bailer	GW-BAILER	Ground Water - Bailer	Specifications vary for bailers used in the field to collect ground water samples.
Water Sampler	WSVD	Van Dorn bottle	FLBS-WSVD	FLBS Water Sampler, Van Dorn	Van Dorn Water Sampler
Water Sampler	WSWB	Water bottle	BACT	Sample Bottle, sterile, 100 ml	100+ ml sterile polyethylene sample bottles, pre-preserved with Sodium Thiosulfate for the collection of bacteriological samples. Sample bottles are provided by analytical laboratory.
Water Sampler	WSWB	Water bottle	BOTTLE	water bottle	
Water Sampler	WSWB	Water bottle	SB-1L	Sample Bottle, 1.0 L	1.0 liter polyethylene sample bottle, laboratory supplied, narrow mouth with screw cap lid and teflon liner.
Water Sampler	WSWB	Water bottle	SB-X3	Sample Bottles, 2.5 L total	1 L & 500 ml Polyethylene collection bottles, laboratory supplied. Standard collection procedure is to collect 3 bottles, 1 L common ions, solids, etc., 1 L nutrients, & 0.5 L metals for analytical suite.

Sample Collection/Creation Gear/Equipment Configurations

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MWRD

Metro Waste Water Reclamation District (Colorado)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Electroshock	ESSS	Stream-side electroshock	ESSS	Stream bank electroshock unit	
Miscellaneous/Other	MSOTH	Other	SECCHI	Secchi Disc	
Net/Vertical Tow	NVWI	Wisconsin-style net	NET	Zooplankton Net	
Water Sampler	WSBK	Bucket	2 GAL BUCK	2 Gallon Bucket	
Water Sampler	WSVD	Van Dorn bottle	WSVD	Van Dorn Bottle	

Sample Collection/Creation Gear/Equipment Configurations

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OKCONCOM

Oklahoma Conservation Commission

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	BENTHIC	Benthic Macroinvertebrate	Gear includes Absolute ethanol (200 proof; ~100%), Clean quart size mason jars, New mason jar lids, Pencil & indelible marker, 1-m2 kick net composed of number 30 nylon mesh, and Handheld dip net composed of #30 size nylon mesh.
Miscellaneous/Other	MSOTH	Other	E-SHOCK	Electroshocking	Electrode shocker powered by a backpack generator and/or a Boat-mounted electroshocker
Miscellaneous/Other	MSOTH	Other	NETS-SHOCK	Seine/Shock Combination	Records are incomplete and this configuration may include a combination of procedures, seining and shocking as described below. The collection of fish follows a modified version of the EPA Rapid Bioassessment Protocol V (EPA, 1989) supplemented by other documents. Specific techniques for, and relative advantages of seining and electrofishing vary considerably according to stream type and conductivity. The specifics are discussed in detail in Fisheries Techniques (edited by L.A. Nielsen and D.L. Johnson and published by the American Fisheries Society 1983). The collection of fish involves the use of two collection methods, seining and electroshocking. The combination of methods was selected in order to produce a representative fish collection. Variations of habitat, type of fish, and water chemistry dictate the use of different collection techniques. In general, each stream is sampled for a distance of 400 m. Seining is conducted before shocking. Seine height is dictated by water depth, and length is determined by width of the water being sampled. If possible, the seine should be 15-25% longer than the width of the waterbody being sampled and about 25% higher than the depth of the water. The seine is hauled with the current because fish tend to orient towards the current. Electrofishing involves the use of a backpack shocker that consists of a trailing stainless steel cable electrode and ring electrode mounted on the end of a fiberglass pole. The shocking team consists of at least two people. One carries and operates the shocker while the other(s) net stunned fish. The shocker is most useful where a seine cannot be used effectively in areas such as brush piles, rootwads, and cobble substrates. The forward electrode is gradually passed back and forth as the team walks downstream. As

Sample Collection/Creation Gear/Equipment Configurations

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OKCONCOM **Oklahoma Conservation Commission**

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
					<p>fish are stunned, they usually roll over and become more visible, allowing the netters to see and capture them. In waters of high conductivity (> 1000 μS/cm) electroshocking is ineffective, due to the highly conductive nature of the water. Under these conditions, only seining is conducted. In general, all fish are placed in 10% formalin immediately after capture. However, if larger fish (> 100 g) can be positively identified in the field, they are returned to the water in a location where recapture is unlikely. All large fish released are photographed on print film. A representative photograph is taken when large numbers of one fish species is collected and released. Collected organisms are identified to species by an experienced taxonomist.</p>
Miscellaneous/Other	MSOTH	Other	SEINE NETS	Seine Nets	<p>4 x 10, 6 x 30, and 4 x 30 seines and any nets of other sizes are used as preferred by the crew leader. All seines should be ¼ inch mesh. Dip nets are also used to collect shocked fish.</p>

Sample Collection/Creation Gear/Equipment Configurations

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PATCMON

Potomac Appalachian Trail Club Volunteer Monitoring - VA,MD

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Non-Tow	NNDF	D-frame net	DNET01	Standard D-Net	One Foot Opening, steel frame with wooden handle, 500 micron mesh closure with canvas sides.

Sample Collection/Creation Gear/Equipment Configurations

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PR-BEACH

Puerto Rico Environmental Quality Board Beach

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	GRAB-001	grab sample water bottle	

Sample Collection/Creation Gear/Equipment Configurations

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PR-COAST

Puerto Rico Environmental Quality Board Coastal (Beach)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	GRAB-001	grab sample water bottle	

Sample Collection/Creation Gear/Equipment Configurations

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PR-LAKES

Puerto Rico Environmental Quality Board (Surface Water)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	GRAB-001	grab sample water bottle	

Sample Collection/Creation Gear/Equipment Configurations

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PR-RIVER

Puerto Rico Environmental Quality Board (Rivers)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	GRAB-001	grab sample water bottle	

Sample Collection/Creation Gear/Equipment Configurations

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PREQB-GW

Puerto Rico

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	WELL-BOT	bottle used to collect well w	Water samples for metals are put in a 500ml amber glass bottle. All other samples are collected in clear 500ml polyethylene bottles.

Sample Collection/Creation Gear/Equipment Configurations

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R2-LAB

New York

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSBK	Bucket	BCH- BUCKET	Sampling for NY/NJ Beaches	
Water Sampler	WSKM	Kemmerer bottle	KEMMERER	Kemmerer	Stainless Steel one liter Kemmerer samplers

Sample Collection/Creation Gear/Equipment Configurations

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R9VOL

Volunteer Monitoring Groups in EPA Region 9 (CALIFORNIA)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Miscellaneous/Other	MSOTH	Other	LOGGER-001	HoboTemp data logger	Temperature logger
Miscellaneous/Other	MSOTH	Other	PHPROBE-1	pH probe	
Miscellaneous/Other	MSOTH	Other	ROD-001	V* measuring rod	gray tape at 0.25 foot intervals, red tape a 1 foot intervals. Tape is 0.05 feet wide
Water Sampler	WSWB	Water bottle	BOTTLE-01	sampling bottle	gray tape at 0.25 foot intervals, red tape a 1 foot intervals. Tape is 0.05 feet wide

Sample Collection/Creation Gear/Equipment Configurations

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SDGEO

South Dakota Geological Survey

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSPS	Pump/submersible	SUBPUMP	Submersible pump	Submersible pump used to obtain sample from the well. Water placed in plastic sample bottle.

Sample Collection/Creation Gear/Equipment Configurations

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SDWRAP		SD Dept of Environmental & Natural Resources			
Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Corer	BCGR	Gravity corer (generic)	BCGR	Gravity Corer	
Benthic Grab	BGEK	Ekman grab	BGEK	Ekman grab	Ekman dredge used for collecting sediment from various types of waters. Samples used for chemical or biological analyses.
Benthic Grab	BGPT	Peterson grab	BGPT	Peterson grab	
Benthic Grab	BGPONPT	Petite ponar grab	BGPONPT	Petite ponar grab	
Benthic Grab	BGPONPT	Petite ponar grab	WSOTH	Sediment grab for elutriates	
Miscellaneous/Other	MSOTH	Other	METER	Meter	Separate Meter
Miscellaneous/Other	MSOTH	Other	MSOTH	Turbidity	Turbidity meter.
Miscellaneous/Other	MSOTH	Other	SECCHI	Secchi Disk depth	Standard Secchi disk.
Miscellaneous/Other	MSOTH	Other	SECTUB	Other	Transparency with Secchi tube.
Miscellaneous/Other	MSOTH	Other	SONDE	Multiprobe	YSI or Hydrolab probe
Miscellaneous/Other	MSOTH	Other	WSOTH	Integrated suspended sediment	Integrated Suspended Sediment Sampler
Net/Horizontal Tow	NTTO	Tow net	NTTO	Tow net	Phytoplankton sampler.
Net/Non-Tow	NNDF	D-frame net	NNDF	D-frame net	Macroinvertebrate sampler.
Net/Vertical Tow	NVPL	Plankton net	NVPL	Plankton net	
Net/Vertical Tow	NVWI	Wisconsin-style net	NVWI	Wisconsin-style net	
Trap/Substrate	TRAS	Artificial substrate	TRAS	Artificial substrate	
Trap/Substrate	TRGS	Glass slide	TRGS	Glass slide	Periphyton sampler using glass slides suspended in a stream.
Trap/Substrate	TRHE	Hess sampler	TRHE	Hess sampler	Macroinvertebrate sampler.
Trap/Substrate	TRHD	Hester-dendy	TRHD	Hester-dendy	Macroinvertebrate sampler.

Sample Collection/Creation Gear/Equipment Configurations

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SDWRAP

SD Dept of Environmental & Natural Resources

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Trap/Substrate	TRNS	Natural substrate	TRNS	Natural substrate	Periphyton or macroinvertebrate sampling from a natural substrate.
Trap/Substrate	TRRB	Rock basket	TRRB	Rock basket	
Trap/Substrate	TRSU	Surber sampler	TRSU	Surber sampler	Macroinvertebrate sampler.
Trap/Substrate	TRTP	Tile plate	TRTP	Tile plate	Macroinvertebrate sampler.
Water Sampler	WSBK	Bucket	WSBK	Bucket	Water sampler.
Water Sampler	WSKM	Kemmerer bottle	WSKM	Kemmerer bottle	Water sampler.
Water Sampler	WSOTH	Other	RECOMPPN	Petit Ponar sampler	Composite sample of substrate used for elutriate tests.
Water Sampler	WSOTH	Other	RICOMBOT	Water Bottle	Composite water sample in a river/stream made from separate water bottle samples.
Water Sampler	WSOTH	Other	RIINTINT	Depth Integrated Water sampler	Depth integrated water sampler
Water Sampler	WSOTH	Other	WSOTH	Integrated sediment sampler	Integrated sediment sampler
Water Sampler	WSPR	Pump/rotary	WSPR	Pump/rotary	
Water Sampler	WSPS	Pump/submersible	WSPS	Pump/submersible	
Water Sampler	WSVD	Van Dorn bottle	WSVD	Van Dorn Bottle	
Water Sampler	WSWB	Water bottle	RICOMBOT	Composite water sample	Composite water sample using water combined from multiple water bottle samples.
Water Sampler	WSWB	Water bottle	WSWB	Water Bottle	Water or algae sample method.

Sample Collection/Creation Gear/Equipment Configurations

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SRMTAKNY

St. Regis Mohawk Tribe (New York)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Corer	BCHC	Hand corer	002	Wildco Sediment Coring Device	
Benthic Grab	BGPON	Ponar grab	007	Ponar	
Electroshock	ESBP	Backpack electroshock	012	electroshock backpack	
Miscellaneous/Other	MSHL	Hook and line	004	Hook and line for fish monitor	
Net/Non-Tow	NNCB	Center bag	008	1/4 inch center bag	
Net/Non-Tow	NNDF	D-frame net	009	d-frame net	
Net/Non-Tow	NNDP	Dip net	010	dip net	
Net/Non-Tow	NNKK	Kick net	011	kick net	
Net/Non-Tow	NNSN	Seine net	003	Seine net	
Trap/Substrate	TRFUN	Funnel Trap	006	Minnow jugs	
Water Sampler	WSBK	Bucket	005	Bucket	
Water Sampler	WSWB	Water bottle	001	1 liter amber bottles	

Sample Collection/Creation Gear/Equipment Configurations

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STROUD

Stroud Water Research Center (Pennsylvania)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	WB0500	500 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB0800	800 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB1000	1000 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB1500	1500 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB2000	2000 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB2600	2600 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB3000	3000 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB4000	4000 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB4500	4500 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB5000	5000 ml Plastic Water Bottle	
Water Sampler	WSWB	Water bottle	WB6000	6000 ml Plastic Water bottle	

Sample Collection/Creation Gear/Equipment Configurations

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TDECDOE

Tennessee Department of Environment and Conservation

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGOTH	Other	SED-SPOON	Sediment samples by spoon	Sediment samples taken from streams in areas of fine sediment deposition (predominantly clay/silt) with stainless steel spoons.
Benthic Grab	BGPONPT	Petite ponar grab	PONAR	River Sediment Ponar Sampling	Samples taken with mini-ponar dredge from river sediments.
Miscellaneous/Other	MSOTH	Other	BOTTLE	Water sampling with bottles	
Miscellaneous/Other	MSOTH	Other	SPOON	Stainless Steel Spoon	Sediment samples taken by hand with stainless steel spoon.

Sample Collection/Creation Gear/Equipment Configurations

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TDECWPC

Tennessee Department of Environment and Conservation

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	WPCWB	water bottle	

Sample Collection/Creation Gear/Equipment Configurations

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USACOEND US Army Corps of Engineers, Nashville District (Tennessee)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSKM	Kemmerer bottle	WSKM-1	Kemmerer Bottle	
Water Sampler	WSWB	Water bottle	WSWB-1	Water Bottle	

Sample Collection/Creation Gear/Equipment Configurations

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USFS0614

Umatilla National Forest (Washington and Oregon)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSPR	Pump/rotary	GEAR01	ISCO	ISCO model 1680, 2700, or 3700.
Water Sampler	WSWB	Water bottle	GEAR02	Grab Bottle	500 ml glass BOD bottle with glass cap, plastic overcap.

Sample Collection/Creation Gear/Equipment Configurations

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USVIST

Government US Virgin Islands

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Water Sampler	WSWB	Water bottle	BOTTLE-01	Fecal Coliform/Turbidity	Lab Safety, 8 oz. Nalgene Bottle, pre-cleaned
Water Sampler	WSWB	Water bottle	BOTTLE-02	HACH, Sample Bottle	Polystyrene Bottle w/ dechlorinating agent
Water Sampler	WSWB	Water bottle	BOTTLE-03	TSS Bottle	Lab Safety 32 oz. Nalgene Bottle
Water Sampler	WSWB	Water bottle	BOTTLE-04	BOD Bottle	

Sample Collection/Creation Gear/Equipment Configurations

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UTAHDWQ

Utah Department Of Environmental Quality

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Benthic Grab	BGOTH	Other	MODHESS	Modified Hess Sampler	
Net/Non-Tow	NNKK	Kick net	KICKNET	Kick Net Macroinvertebrate Sam	
Net/Vertical Tow	NVPL	Plankton net	DWQPHYTO2	Phytoplankton Net	
Trap/Substrate	TRAS	Artificial substrate	BASKETS	Artificial Substrate Baskets	
Trap/Substrate	TRNS	Natural substrate	PERIROCKS	Rocks sampled for periphyton	
Trap/Substrate	TRTP	Tile plate	PERITILES	Tiles for Periphyton	
Water Sampler	WSVC	Flexible vinyl tube	DWQPHYTO1	Phytoplankton Sampling Tube	
Water Sampler	WSKM	Kemmerer bottle	DWQLAKE01	Lake sampling Kemmerer	

Sample Collection/Creation Gear/Equipment Configurations

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WSSC

Water Sentinels Sierra Club (Epa Region 7)

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Net/Non-Tow	NNDF	D-frame net	GEAR002	Dnet	
Net/Non-Tow	NNKK	Kick net	GEAR001	kicknet	

Sample Collection/Creation Gear/Equipment Configurations

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WY-DEQ

Wyoming Dept. of Environmental Quality

Gear Group Name	Field Gear ID	Gear Name	Config ID	Config Name	Specifications
Trap/Substrate	TRSU	Surber sampler	GR-MACROS	Surber Sampler	<p>The Surber Sampler involves a one foot square frame that is placed onto the stream substrate. The mesh size is 500 microns, (1000 in 1992) and the vertical section of the frame has the net attached and captures the dislodged organisms from the sampling area. The Sampler is placed eight times, at randomly determined locations, throughout the riffle and a composite sample is taken. The Surber sampler is used on the collection of macroinvertebrates because it:</p> <ol style="list-style-type: none"> 1. is a common and widely used sampler for stream riffle habitat; 2. Ensures that a standard area of the substrate is sampled; 3. Ensures equal sampling effort among locations for optimal comparability; 4. Provides quantitative data that results in better resolution among stream types than for qualitative data (Robinson and Minshall, 1992)
Water Sampler	WSWB	Water bottle	GR-WATER	Water Sample Container	<p>These plastic containers are used for the collection of water samples and the size of the bottle depends on the parameter of consideration. Glass containers are used in the collection of Oil and Grease samples.</p>