

Sediment & Water Sampling Chapter Review

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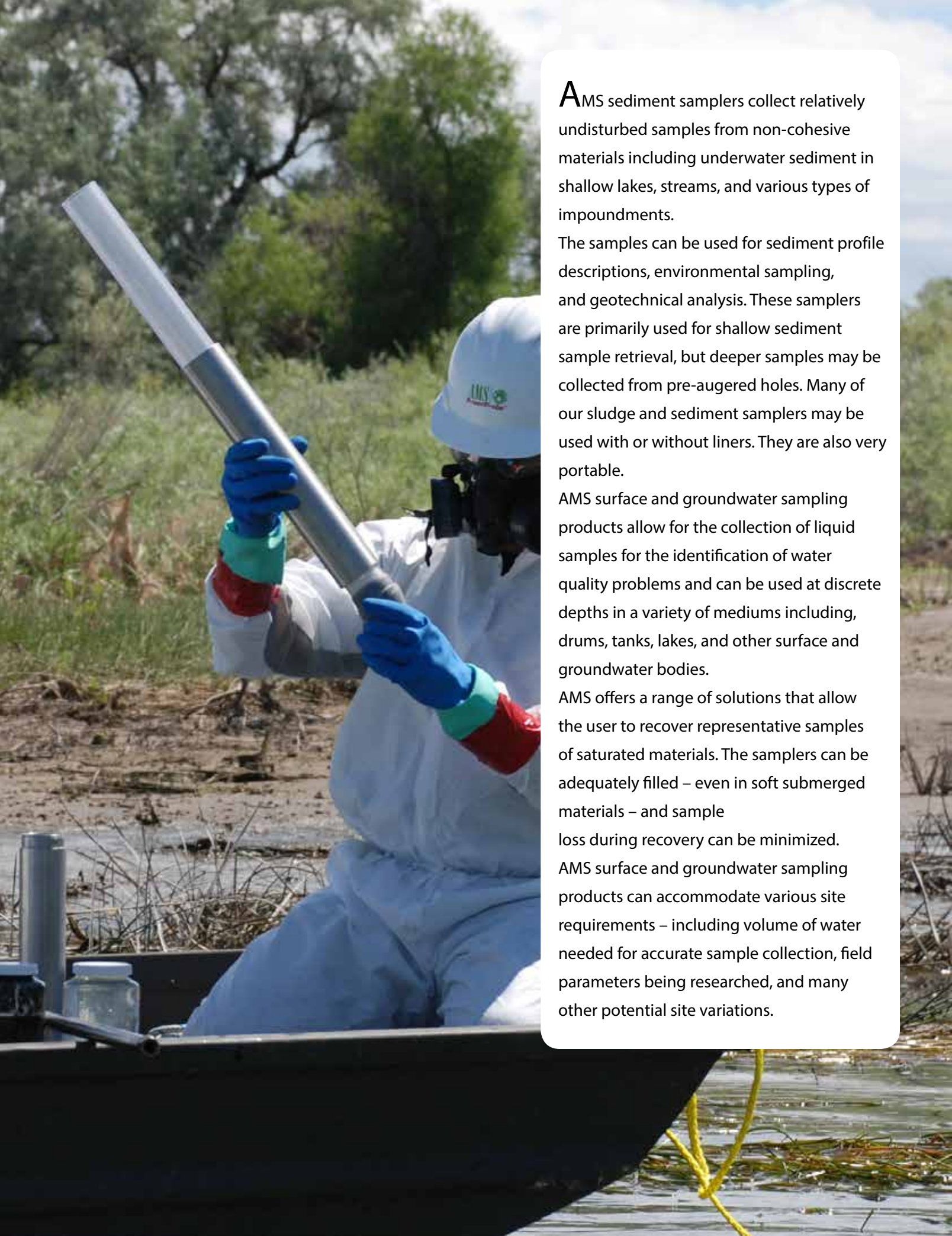
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AMS sediment samplers collect relatively undisturbed samples from non-cohesive materials including underwater sediment in shallow lakes, streams, and various types of impoundments.

The samples can be used for sediment profile descriptions, environmental sampling, and geotechnical analysis. These samplers are primarily used for shallow sediment sample retrieval, but deeper samples may be collected from pre-augered holes. Many of our sludge and sediment samplers may be used with or without liners. They are also very portable.

AMS surface and groundwater sampling products allow for the collection of liquid samples for the identification of water quality problems and can be used at discrete depths in a variety of mediums including, drums, tanks, lakes, and other surface and groundwater bodies.

AMS offers a range of solutions that allow the user to recover representative samples of saturated materials. The samplers can be adequately filled – even in soft submerged materials – and sample

loss during recovery can be minimized.

AMS surface and groundwater sampling products can accommodate various site requirements – including volume of water needed for accurate sample collection, field parameters being researched, and many other potential site variations.

AMS Piezometer Groundwater Sampling Kit



209.20 AMS Piezometer Groundwater Sampling Kit



209.20 AMS Piezometer Groundwater Sampling Kit

The AMS "Piezometer Groundwater Sampling Kit" was designed in response to our clients' need for a manually-operated sampling kit, capable of providing a semi-permanent sampling point for water level measurements and shallow groundwater sampling investigations. This complete kit includes everything needed to take groundwater measurements and collect samples to a depth of 12' below ground surface. For tough soil conditions, a 1 3/4" regular soil auger, 6', of extensions, and a rubber-coated cross handle have been provided for "pre-augering" a borehole. The 1 1/4" outside diameter (OD) x 14" long Stainless Steel piezometer drive point can be connected to any of the 3', Stainless Steel Piezometer extensions using heavy-duty single-lead threaded couplers. These male/male couplers are crucial for providing the same OD the entire way down the drive string; allowing for an easier "push" and "pull"! Unlike other piezometer designs with welded fittings, the AMS Piezometer allows the end-user to remove and replace the internal (50 mesh SST Screen & Spring) for proper decontamination in between samplings, which is an extremely valuable feature exclusive to the AMS Piezometer. Also included in the kit is the patented AMS SST Dedicated Tip with SST screen. Used as both a drop weight and sampling port, this tip is connected to the 3/16" ID x 1/4" OD fluoropolymer or poly tubing via a barbed adapter and lowered inside the piezometer. Typically, a peristaltic pump is connected at the other end of the tubing, although bladder pumps, AMS stainless steel bailers, and inertia samplers may also be used. The inside diameter of the piezometer is 7/8", which provides plenty of room for an AMS 5/8" Water Level Meter to be used prior to sampling. The sampler and extensions are driven into the subsurface using an AMS 20lb., Slide Hammer Attachment and threadless drive adapter. An AMS Big Foot removal jack and T-Jack Adapter are included for removal of the extensions and piezometer. Finally, cleaning brushes and wrenches for maintenance and assembly have been provided. All the components to this kit fit securely inside of two foam-lined, poly-reinforced AMS deluxe carrying cases with handles & wheels for added portability.



AMS Piezometer Groundwater Sampling Kit

Part #	Item	Weight
209.20	Piezometer Groundwater Sampling Kit	144.0 lb.

AMS Hex Quick Pin Sampling Kit Replacement Parts

Part #	Item	Weight
18253	Big Foot Removal Jack	45.0 lb.
211.00	Gas Vapor & Umbrella	0.1 lb.
21151	Wire Cleaning Brush	0.1 lb.
212.05	GVP Screen #50 Mesh	0.1 lb.
214.98	3/16" ID x 1/4" OD x 50' Fluoropolymer Tubing	1.1 lb.
400.10	1 3/4" Regular Auger	1.19 lb.
400.93	3/4" Heavy Duty Slide Hammer	18.9 lb.
406.04	18" Rubber Coated Cross Handle	1.35 lb.
408.02	5/8" x 3' Extension	1.63 lb.
421.10	Crescent Wrench 12"	1.7 lb.
430.01	AMS Deluxe Carrying Case 1750	28.91 lb.
430.05	1" x 24" Nylon Brush	0.1 lb.
58062	1-1/4" x 14" Stainless Steel Piezometer	2.25 lb.
58063	1-1/4" x 3' Stainless Steel Extension	4.5 lb.
58064	Male-to-Male Piezometer Extension Coupler	0.25 lb.
58067	Threadless Drive Adapter	1.35 lb.
58068	Piezometer T-Jack Adapter	1.35 lb.
5004.45	Twist-to-Lock Connector, 3/16" ID	0.1 lb.
5004.56	1 1/4" Expendable Tip	0.5 lb.
5004.58	Stainless Steel #50 Mesh Screen for Expandable Drive Tip Holders	0.1 lb.
58069	Piezometer Point Holder	0.25 lb.
58070	Piezometer Slotted Pull Adapter	0.6 lb.



#2100.79

Peristaltic Pump

Part #	Item	Weight
2100.79	Peristaltic Pump (GEOPUMP2 AC/DC, Carrying Case, & Battery)	25.0 lb.



#58062





Sludge & Sediment Samplers

Similar in design to core sampler (page 19), sludge & sediment samplers come with core and auger tips that are fitted with one-way valves for the retention of high-quality soil core samples in non-cohesive, saturated materials. These samplers are made in two diameters (2 1/4" and 3 1/4") and are available in lengths of 8", 10", and 12". They include a solid cap, valved core tip, valved auger tip, sludge cylinder body, universal slip wrench, plastic liner, and end caps. The solid cap, cylinder body, and tips are made of stainless steel.

Sludge & Sediment Samplers Replacement Parts

Part #	Diameter	Length	Item	Material	Weight
428.10	2 1/4"		5/8" Threaded, Sludge Solid Cap	SST	1.4 lb
428.15	3 1/4"		5/8" Threaded, Sludge Solid Cap	SST	2.3 lb
328.10	2 1/4"		Quick Connect, Sludge Solid Cap	SST	1.7 lb
328.15	3 1/4"		Quick Connect, Sludge Solid Cap	SST	2.6 lb
428.07	2 1/4"		Valved Core Tip	SST	0.7 lb
428.17	3 1/4"		Valved Core Tip	SST	1.0 lb
428.08	2 1/4"		Valved Auger Tip	SST	0.9 lb
428.16	3 1/4"		Valved Auger Tip	SST	1.4 lb
428.09	2 1/4"	8"	Cylinder Body	SST	1.7 lb
428.24	2 1/4"	10"	Cylinder Body	SST	2.1 lb
428.26	3 1/4"	10"	Cylinder Body	SST	3.1 lb
428.28	3 1/4"	12"	Cylinder Body	SST	3.8 lb
422.03	2"	8"	Plastic Liner		0.2 lb
422.04	2"	10"	Plastic Liner		0.2 lb
422.01	3"	10"	Plastic Liner		0.3 lb
422.02	3"	12"	Plastic Liner		0.4 lb
418.10	2"		Plastic End Cap		0.1 lb
418.09	3"		Plastic End Cap		0.1 lb

5/8" Threaded, Sludge & Sediment Samplers

Part #	Diameter	Length	Material	Weight
428.11	2 1/4"	8"	SST	6.0 lb.
428.12	2 1/4"	10"	SST	6.3 lb.
428.13	3 1/4"	10"	SST	9.2 lb.
428.01	3 1/4"	12"	SST	9.9 lb.

Quick Connect Sludge & Sediment Samplers

Part #	Diameter	Length	Material	Weight
328.12	2 1/4"	8"	SST	6.8 lb.
328.13	3 1/4"	10"	SST	9.6 lb.
328.01	3 1/4"	12"	SST	10.3 lb.

Multi-Stage Sludge & Sediment Sampler

This sampler uses a disposable plastic core catcher and a rubber check flap on a special top cap to improve recovery of saturated materials.

During deployment of the sampler, the check flap on the top cap opens to allow excess air and water to escape through the four holes that are machined through the top cap. Air and water are able to easily pass through the sampler.

When the sampler reaches the sediment, the saturated materials are able to push through the core catcher and into the liner inside of the sampler body as the sampler is driven downward. The venting action of the check flap and cap prevents pressure buildup and allows the sample to enter the liner.

During retrieval of the filled sampler, the core catcher will be pressed closed by the weight of the sediment. This helps prevent the material from escaping through the bottom of the sampler. At the same time, the check flap will cover the holes through the top cap – which creates suction inside the sampler. This suction also helps to retain the collected sample in the sampler body.

The multi-stage sampler includes a check flap, top cap, core tip, 12" multi-stage base section, 2" x 12" plastic liner, two 2" end caps, 2" core catcher, and a universal slip wrench. The cap, base section, and core tip are all made of stainless steel.

Optional extension sections may be added onto the base section. Additional liners or longer liners may be used in the extended sampler. See below for details. Optional valved core and auger tips are also available to help improve the quality of samples collected in very non-cohesive, saturated materials. A complete multi-stage sampling kit is also available.

5/8" Threaded, Multi-Stage Sludge & Sediment Sampler

Part #	Diameter	Length	Item	Material	Weight
403.31	2 3/8"	12"	Multi-Stage Sludge & Sediment Sampler	SST	9.7 lb.



#403.31

Multi-Stage Valved Core Tip

The multi-stage valved core tip is made of 300 series stainless steel. The one-way valve helps retain samples.

Part #	Diameter	Material	Weight
403.28	2 3/8"	SST	0.8 lb.



Multi-Stage Valved Auger Tip

The multi-stage valved core tip is made of 300 series stainless steel. The one-way valve helps retain samples.

Part #	Diameter	Material	Weight
403.29	2 3/8"	SST	0.8 lb.

Multi-Stage Extension Section

The multi-stage core sampler body extensions have male/female threads which allow them to connect to the multi-stage base section as well as to each other. These sections allow the sampler body to be extended up to 48". They are made of 300 series stainless steel.



Part #	Diameter	Length	Material	Weight
403.23	2 3/8"	12"	SST	3.9 lb.

Multi-Stage Sludge & Sediment Sampling Kit (209.41)

This sampling kit provides all of the components needed to collect sludge and sediment samples up to 4' in length. The 12" base section and three extension sections allow you to assemble a sampler that is 12", 24", 36", or 48" in length. It also comes with three 4' extensions that allow you to deploy the sampler through 12' of water before reaching the sediment.

The kit includes all of the components of the multi-stage sludge & sediment sampler (page 69), 12" multi-stage base section, three 12" multi-stage extension sections, 2" multi-stage valved core tip, three 4' extensions, 2" x 12" OD plastic liner, two 2" end caps, 2" core catcher, universal slip wrench, two crescent wrenches, 18" rubber-coated cross handle, slide hammer, and deluxe carrying case. The top cap, core tip, valved core tip, multi-stage sampler, multi-stage extension sections, and extensions are made of stainless steel.



Liners are available in 12", 24", 36", and 48" lengths.



#209.41

5/8" Threaded, Multi-Stage Sludge & Sediment Sampling Kit

Part #	Diameter	Item	Weight
209.41	2 3/8"	Sludge & Sediment Sampling Kit	65.1 lb.

Multi-Stage Sludge & Sediment Sampling Kit Replacement Parts & Accessories

Part #	Diameter	Length	Item	Material	Weight
403.24	2 3/8"	12"	Multi-Stage Sampler Base	SST	4.4 lb.
403.23	2 3/8"	12"	Multi-Stage Extension Section	SST	4.0 lb.
403.19			Multi-stage Core Catcher Tip	SST	0.8 lb.
403.28			Valved Core Tip	SST	0.9 lb.
403.29			Valved Auger Tip	SST	0.9 lb.
403.21			Top Cap & Check Flap	SST	1.2 lb.
409.09		4'	5/8" Thread Extension	SST	2.1 lb.
406.04		18"	5/8" Thread Cross Handle		1.3 lb.
400.99			5/8" Reg. Slide Hammer		10.2 lb.
421.10		12"	Crescent Wrench		1.4 lb.
421.29			Universal Slip Wrench		1.4 lb.
430.07	2"	12"	Nylon Brush		0.1 lb.
430.01			Deluxe Carrying Case 1750		26.0 lb.
404.91	2"		Plastic Core Catcher		0.1 lb.
418.10	2"		Plastic End Cap		0.1 lb.
405.10	2"	12"	Plastic Liner		0.2 lb.
425.20	2"	24"	Plastic Liner		0.3 lb.
406.72	2"	36"	Plastic Liner		0.4 lb.
406.73	2"	48"	Plastic Liner		0.5 lb.

*Plastic, brass, stainless steel, and aluminium liners are available in various lengths.



Part# 403.14



Multi-Stage Valved Serrated Tip

Multi-Stage Serrated Core Catcher Tip

Part #	Item	Weight
403.14	Multi-Stage Serrated Core Catcher Tip	0.8 lb.

Part #	Item	Weight
403.15	Multi-Stage Valved Serrated Tip	0.9 lb.

Part# 403.14

Serrated core tips provide better 'cutting action' & increase sample recovery in organic sediments where roots & other fibrous debris may be present.

2" Professional Series Multi-Stage Sediment / Sludge Sampler Kit



Part# 209.42

This sampling kit provides all of the components needed to collect sludge and sediment samples up to 4' in length. The 12" base section and three extra body sections allow you to assemble a sampler that is 12", 24", 36", or 48" in length. This kit provides all of the same components found in the original Multi-Stage kit found on page 70, however; this kit was designed for soil the sampling professional who wants the strongest, most durable connection on their extensions, cross handle, slide hammer, and sampler cap. The professional series 3/4" threaded extensions are constructed of larger 1" diameter chrome molybdenum tubing and are powder-coated safety orange for added rust resistance. The redesigned 10 lb. rubber-coated slide hammer is equipped with a more robust 3/4"-diameter inner slide bar that makes it more reliable and prevents bending of the bar. The new multi-stage flap check cap includes a thicker (.800") collar & was designed to match up with the larger 3/4" threaded female connection of the new professional slide hammer to provide increased durability. Kit components include 12" multi-stage base section, three 12" multi-stage extension sections, 2" multi-stage core tip, 2" multi-stage valved core tip, three 4' extensions, 2" x 12" OD plastic liner, two 2" end caps, 2" core catcher, universal slip wrench, two crescent wrenches, 18" rubber-coated cross handle, slide hammer, and deluxe carrying case. The top cap, core tip, valved core tip, multi-stage sampler, multi-stage extension sections, and extensions are made of stainless steel.

2" AMS Professional Series Multi-Stage Sediment / Sludge Sampler Kit

Part #	Item	Weight
209.42	Professional Series Multi-Stage Sediment / Sludge Sampler Kit	70.0 lb.

Accessories

Part #	Item	Weight
403.16	Serrated MS SCS Core Tip	0.8 lb.
403.15	Serrated MS Sludge Core Tip W/Valve	0.8 lb.
425.20	2" X 24" Plastic Liner	0.35 lb.
406.72	2" X 36" Plastic Liner	0.55 lb.
406.73	2" X 48" Plastic Liner	0.75 lb.

AMS Professional Series Multi-Stage Sediment / Sludge Sampler Kit Replacement Parts

Part #	Item	Weight
403.24	2" X 12" MS Sludge SCS Base	4.1 lb.
403.23	2" x 12" MS Base Body Section	4.1 lb.
403.19	MS Sludge Core Tip	0.9 lb.
403.28	MS Sludge Core Tip w/Valve	0.8 lb.
50461	MS Flap Check Valve Cap 3/4" Threads	1.3 lb.
402.32	Pro Series 3/4" X 4' Powder Coated Extension	2.5 lb.
402.31	Pro Series 18" Rubber Coated 3/4" Cross Handle	1.3 lb.
57780	Pro Series Hammer (10 lb)	10.9 lb.
421.10	12" Crescent Wrench	1.7 lb.
421.29	Universal Slip Wrench	1.24 lb.
430.07	2" x 12" Nylon Brush	0.2 lb.
430.01	AMS Deluxe Carrying Case 1750 Black	28.9 lb.
404.91	MS 2" Plastic Core Catcher	0.1 lb.
405.10	2" X 12" Plastic Liner	0.2 lb.
418.10	2" Plastic End Cap	0.1 lb.

3" Professional Series Multi-Stage Sediment/Sludge Sampler Kit

3" AMS Professional Series Multi-Stage Sediment / Sludge Sampler Kit

Part #	Item	Weight	Price
403.34	3" Professional Series Multi-Stage Sediment / Sludge Sampler Kit	68 lb.	\$ 2,233.80

This sampling kit provides all of the components needed to collect sludge and sediment samples 3" in diameter & up to 24" in length. The 12" long (female/female threaded) base section and (1) extra 12" (male/female threaded) body section allows you to assemble a sampler that is 24" in length. This kit was designed for soil sampling professional who wants the strongest, most durable connection on their extensions, cross handle, slide hammer, and sampler cap. The professional series 3/4" threaded extensions are constructed of larger 1" diameter chrome molybdenum tubing and are powder-coated safety orange for added rust resistance. The redesigned 10 lb. rubber-coated slide hammer is equipped with a more robust 3/4"-diameter inner slide bar that makes it more reliable and prevents bending of the bar. The new multi-stage flap check cap includes a thicker (.800") collar & was designed to match up with the larger 3/4" threaded female connection of the new professional slide hammer to provide increased durability. Kit components include 12" multi-stage base section, 12" multi-stage section, 3" multi-stage core tip, 3" multi-stage valved core tip, three 4ft. extensions, 3" x 12" OD plastic liner, two 3" end caps, 3" core catcher, universal slip wrench, two crescent wrenches, 18" rubber-coated cross handle, slide hammer, and deluxe carrying case. The top cap, core tip, valved core tip, multi-stage sampler, multi-stage extension sections, and extensions are made of stainless steel.

Availability

The Multi-Stage Sludge Sampler (MSS) is available as a kit or individual components.

Kit components include 12" multi-stage base section, 12" multi-stage section, 3" multi-stage core tip, 3" multi-stage valved core tip, three 4ft. extensions, 3" x 12" OD plastic liner, two 3" end caps, 3" core catcher, universal slip wrench, two crescent wrenches, 18" rubber-coated cross handle, slide hammer, and deluxe carrying case.

Kit Components / Replacement Parts

Part #	Item	Weight
61869	3" MS Base (fem/fem threaded)	6.35 lb.
61991	3" MS Section (male/fem threaded)	6.35 lb.
61868	3" Multi Stage Core Tip	1.5 lb.
61872	3" Multi Stage Valved Core Tip	1.2 lb.
61870	3" MS Flap Cap 3/4" Threads	2.5 lb.
402.32	Pro Series 3/4" X 4' Powder Coated Extension	2.5 lb.
402.31	Pro Series 18" Rubber Coated 3/4" Cross Handle	1.3 lb.
57780	Pro Series Hammer (10 lb)	10.9 lb.
421.10	12" Crescent Wrench	1.7 lb.
421.29	Universal Slip Wrench	1.24 lb.
430.09	3" X 12" Nylon Brush	0.2 lb.
430.01	AMS Deluxe Carrying Case 1750 Black	28.9 lb.
61885	Core Catcher 3"	0.1 lb.
422.02	3" X 12" Plastic Liner	0.32 lb.
418.09	3" Plastic End Cap	0.1 lb.



Accessories

Part #	Item	Weight
61871	3" Standard Multi-Stage Cap 3/4" Threads	2.65 lb.
61880	3" Multi-Stage Valved Auger Tip	1.6 lb.
61881	3" Multi-Stage Serrated Tip	1.45 lb.
422.10	3" x 24" Plastic Liner	0.8 lb.



Aluminum Tank Sampling Kit

Easily collect sludge samples from the bottom of petroleum tanks with this unique & user friendly sampling kit. Based on the popular design of the 'AMS Multi-Stage Sediment Sampling Kit', the components in this kit are similar, only they are made from lightweight aluminum. This proves to be crucial, as often times tanks can be 50ft.+ in height; therefore keeping your sampler and extension strand 'lightweight' is a necessity. Having a solid/rigid extension strand gives the operator the ability to push and twist the sampler deep into the sludge. Two separate core tips come with the kit. The AMS "valved core tip" has a built in 1-way valve which resembles a door hinge. As the sampler is pressed into the sludge, the 1-way valve opens and fills the sampler. When the sampler is pulled up from the sludge the valve closes and traps any sediment and liquid inside the sampler. The second tip, the (core catcher tip) uses a disposable plastic soil catcher that fits on the end of a 2" plastic liner. As the sampler is pushed into the sludge, the core catcher teeth open up and allowing the material to enter the sampler. As the sampler is raised, these teeth close and restrict the sample from falling back out. The specialized top cap of the sampler is also an important component of the kit. During deployment, the viton rubber flap cap opens and allows excess air and water to escape through the oversized vent holes of the sampler top cap – eliminating pressure buildup. When the sampler is lifted the flap closes over these vent holes and creates suction to assist in retaining the sample. There are qty: four 12" long sampler body sections in the kit. Meaning, if necessary, a 4ft. long sampler can be assembled. Extra 12" body sections may be purchased to create a longer sampler. Qty: three, 4ft. long 'square' extension rods are included with the kit. Extra extensions may be added to accomplish deeper depths.

Kit Components / Replacement Parts

Part #	Item	Weight
58990	Aluminum Tank Sampling Kit	45 lb.
58989	12" Aluminum MS Sludge SCS Base (fem/fem threaded)	1.4 lb.
58890	12" Aluminum MS Section (male/fem threaded)	1.4 lb.
58988	Aluminum MS Sludge Core Tip	0.35 lb
58991	Aluminum MS Sludge Core Tip w/ Valve	0.25 lb.
58987	Aluminum MS Flap Check Valve Cap	0.50 lb.
58981	Aluminum Square Extension 4'	2.3 lb.
58982	Aluminum MS Cross Handle	0.75 lb.
421.29	Universal Slip Wrench	1.4 lb.
430.07	2" x 12" Nylon Brush	0.15 lb.
430.01	AMS Deluxe Carrying Case 1750 Black	28 lb.
404.91	MS 2" Plastic Core Catcher	0.15 lb.
405.10	2" x 12" Plastic Liner	0.15 lb.
418.10	2" Plastic End Cap	0.05 lb.





#424.37

Sand & Sediment Probe

The sand & sediment probe is ideal for sampling dry sand, loose sediment, and sludges that has settled at the bottom of drums and tanks. It is capable of recovering high-quality core samples in a variety of loose or saturated materials. This small diameter sampler comes equipped with a heat-treated replaceable core tip that has been bored out to accept a 1" core catcher and 1" x 24" plastic liner. This feature minimizes the gap between the tip and body of the sampler – resulting in a more representative core sample. The core catcher helps to ensure full sample recovery in the proper soil conditions. An oversized vent hole at the top of the sampler allows ambient air and liquids to escape while the sampler is pushed to the desired sampling depth. The sand & sediment probe includes a 1" x 24" probe body, 10" rubber-gripped cross handle, replaceable core tip, 1" core catcher, 1" x 24" plastic liner, two 1" plastic end caps, and a spanner wrench. The probe body is made of nickel-plated chromoly; the tip is made of heat-treated, nickel-plated chromoly. Additional extensions can be used to reach deeper sampling depths. If sampling in compacted deposits, AMS compact and regular slide hammers can be used to drive the sampler.



Use this probe in dry or wet sands, as well as in sludges and sediments.

5/8" Threaded, Sand & Sediment Probe

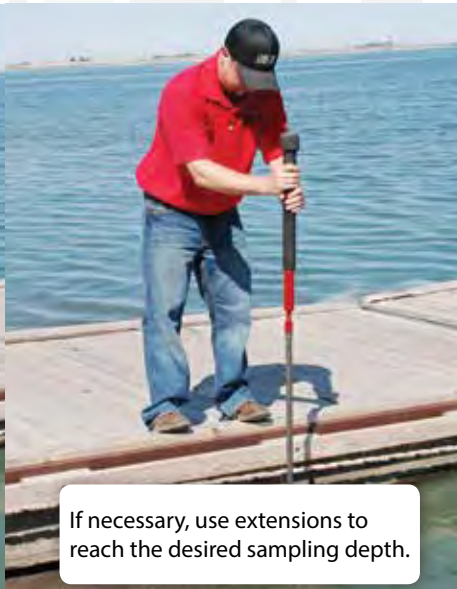
Part #	Diameter	Length	Item	Weight
424.37	1 1/4"	24"	Sand & Sediment Probe	4.4 lb.
424.39	1 1/4"	36"	1 1/4" X 36" Replaceable Tip Sand Probe	6.0 lb.

Sand & Sediment Probe Replacement Parts & Accessories

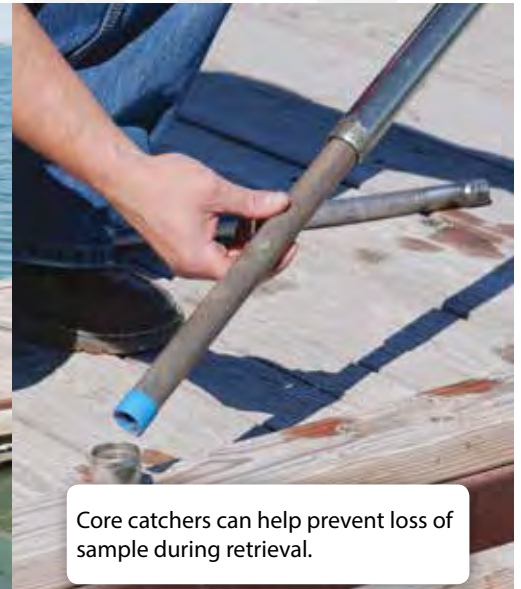
Part #	Diameter	Length	Item	Weight
425.04	1"	24"	Plastic Liner	0.2 lb.
425.18	1"		Plastic End Cap	0.1 lb.
61882	1"		Plastic Core Catcher	0.1 lb.
401.26		10"	Cross Handle	0.9 lb.
400.96			5/8" Threaded Compact Slide Hammer	7.5 lb.
400.99			5/8" Threaded Regular Slide Hammer	10.3 lb.
425.05	1"	36"	1" X 37-3/4" Plastic Liner	0.2 lb.
56799			Replaceable Tip	0.5 lb.
5004.89			Replacement O-Rings (2-020)	0.1 lb.



Push the probe into the material to be sampled using the included handle or optional slide hammer.



If necessary, use extensions to reach the desired sampling depth.



Core catchers can help prevent loss of sample during retrieval.



#5618.00

Soggy Bottom Sampling System

Use this sampler for discrete-interval sediment sampling below water and below the surface of the sediment in rivers, lakes, wetlands, and estuaries. It includes the sampler body, a 4' x 1 1/2" plastic liner, two 2' x 1 1/2" plastic liners, six 1 1/2" plastic end caps, one metal core catcher, one plastic basket retainer, three 3' extensions (with inner and outer rods), a 20 lb. slide hammer, cleaning brushes, and a deluxe padded carrying case. To obtain a sample, the assembled sampler is lowered to the surface or driven down to the depth where sampling is to begin. Upon reaching the sampling depth, the inner rods attached to the internal drive tip are retracted. When removing the internal rods, the internal drive tip is released and retained in a chamber at the top of the sampler. Next, the slide hammer with the 1 1/8" vented hammer adapter is attached, and the sampler is driven to collect the sample. Once the sample has been collected, the rods and sampler are pulled out of the borehole. If sampling in hard or tight sediments, the user may reverse hammer with the slide hammer or use the optional removal jack and chain pull cap. After removal, the sampler disassembles to allow access to the liners which can then be capped for transport to the lab.

AMS Soggy Bottom Sampling (SBS) System

Part #	Item	Weight
5618.00	2" OD Soggy Bottom Sampling Kit	100 lb.

SBS Kit Replacement Parts & Accessories

Part #	Item	Weight
5618.105	SBS External Drive Tip	3.0 lb.
5618.106	SBS Internal Drive Tip	2.5 lb.
5618.168	SBS Lead Internal Rod for 2'	0.1 lb.
5618.169	SBS Upper Lead Internal Rod	0.1 lb.
5618.166	SBS Sampler Tube for 2' Liner	5.0 lb.
5618.167	SBS Sampler Tube Upper Extension	5.0 lb.
5618.109	SBS Top Metal Core Catcher	0.1 lb.
18013	1 1/2" Basket Retainer - White	0.1 lb.
5006.425	1 1/2" x 4' PVC Liner	0.7 lb.
5006.423	1 1/2" x 2' PVC Liner	0.4 lb.
418.08	1 1/2" Plastic End Cap	0.1 lb.
5618.113	Internal Tip Chamber	2.3 lb.
5618.114	1 1/8" x 2" SBS Top Cap	1.7 lb.
5618.116	1 1/8" Vented Hammer Adapter	0.4 lb.
5618.118	3/8" x 3' Internal Rod w/ Coupler	7.1 lb.
5004.06	1 1/8" x 3' Direct Push Extension	20.0 lb.
400.93	3/4" Heavy-Duty Slide Hammer	0.8 lb.
5006.84	Steel T-Handle (3/8" Threaded)	28.0 lb.
430.01	AMS Deluxe Carrying Case 1750	0.3 lb.
5009.05	Brush for 1 1/8" External Extension	0.3 lb.
5009.09	Brush for 2" Sample Tube	0.5 lb.
5618.129	SBS Liner Removal Tool Assembly	0.5 lb.
5618.115	SBS Thread Protector Cap	0.2 lb.
ACCESSORIES		
5618.121	SBS Chain Pull Cap	2.0 lb.
18253	Big Foot Removal Jack	35 lb.
10183	1 1/2" Basket Retainer - Red	0.1 lb.
1002.24	3/8" Couplers	0.1 lb.
418.16	0.003" x 4" x 100' Perforated Roll Fluoropolymer Film	1.3 lb.



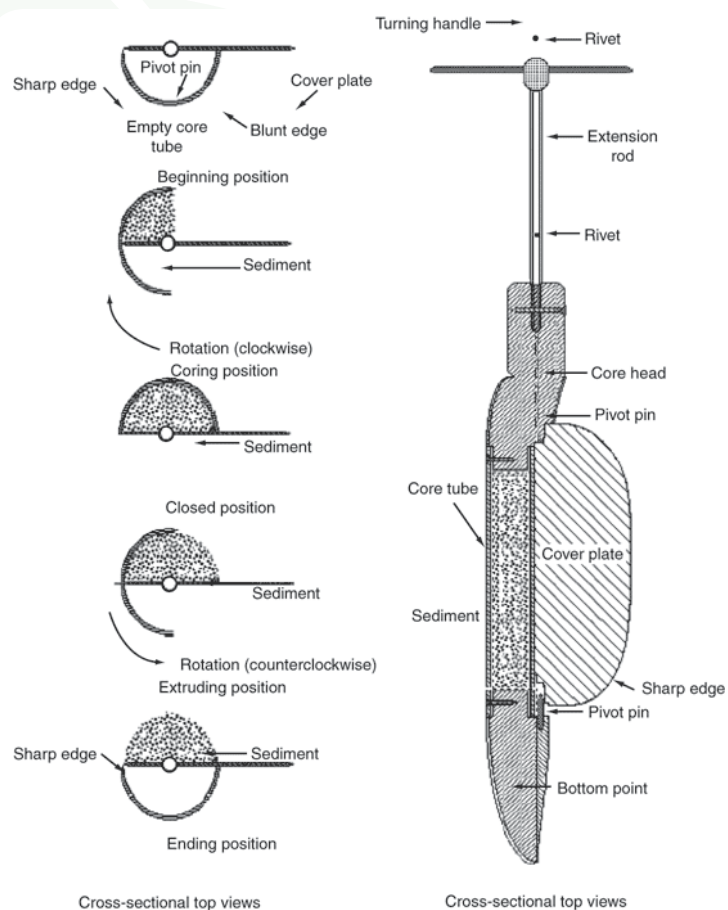
#5618.00

Drive this 4' discrete-interval sediment sampler using the 20 lb. slide hammer



Russian Sediment/Peat Borer Complete Kit

- Paleoecological analysis of bog and salt marshes
- Collection of uncompressed cores in poorly decomposed woody peat
- Shallow water applications



Accessories

Part #	Item	Weight
25030	Russian Sediment/Peat Borer Complete Kit	23 lb.
25031	Russian Borer 1.2 Meter Aluminum Extension	2.2 lb.
25032	Russian Borer Oversize 2.4 Meter Aluminum Extension Rod (additional shipping charges)	4.5 lb
25033	Russian Borer Slide Hammer Attachment	12 lb.
25034	Russian Borer T-Handle	2.35 lb.
25035	Russian Borer (sampler head only)	8.60 lb.



5 lb. Sand Silt Dredge

The 5 lb. sampler is great for grab sampling sand or silt. It features a hinged scissor jaw that is 6" x 7 1/2" when fully opened. It is designed with a trigger mechanism that holds the sampler open until it contacts the surface being sampled. Raising the dredge closes the scissor jaws to collect the sample. It is made of 300 series stainless steel.

15 lb. & 25 lb. Bottom Dredges

AMS bottom dredges are primarily used to sample sand and silt but can be used to sample most types of non-cohesive material, except hard-packed clay. The 15 lb. dredge is suitable for most sediments. The 25 lb. dredge will sink faster, and push deeper into sediments. The top of the sampling chambers are screened to allow water to flow through during deployment and to reduce displacement and shock wave effects that may cause sample loss. A two-way mechanism prevents accidental closure while the dredge is dropping. The impact of the dredge on the bottom surface triggers the spring-loaded release mechanism to close the sampler. One of the jaws is fitted with an under lip to displace stones or gravel during closure. After closure, the dredge is pulled up to retrieve the sample. Careful release will distribute the sample approximately as it appeared on the bottom, making sediment profile description possible.

Both dredges feature a 6" x 6" jaw opening that provides a 36 in² sampling area. The sampler bodies and jaws are made of 300 series stainless steel. The arms are made of powder-coated carbon steel.



#445.11

Ekman Dredge

The spring-loaded ekman dredge is triggered to close using a messenger that travels down the attached rope. The dredge is made with 300 series stainless steel. It includes the dredge, messenger, 100' nylon rope, and a carry case. An optional 5ft handle is available.



The dredge can be triggered to close using the messenger and rope, or by pushing on the top of the optional handle.



#445.60

The 5 lb., 15 lb., and 25 lb. bottom dredges close upon reaching the bottom surface.

Bottom Dredges

Part #	Item	Material	Weight
445.70	5 lb. Sand Silt Dredge	SST	5.0 lb.
445.10	15 lb. Bottom Dredge	SST	15.0 lb.
445.60	25 lb. Bottom Dredge	SST	25.0 lb.

Ekman Dredge

Part #	Item	Material	Weight
445.11	Ekman Dredge	SST	13 lb.

Ekman Dredge Replacement Parts & Accessories

Part #	Item	Weight
445.12	Ekman Messenger	0.7 lb.
445.13	Ekman Dredge Cable Kit	1.2 lb.
53864	Ekman 5' Handle	2.7 lb.
445.00	1/4" Nylon Rope (per foot)	0.2 lb.

Manual Cable-Controlled Discrete Liquid Sampler Kits

Manual cable-controlled discrete liquid samplers are used to collect discrete or composite liquid samples in drums, tanks, ponds, lagoons, and other surface water bodies. They are also recommended for use in monitoring wells with inner diameters of 2" or larger. They are made of stainless steel and have fluoropolymer bodies. They are heavier than most bailers, and the weight allows for an easy, straight deployment into liquids.

Discrete liquid samplers are easy to use. They are lowered into the liquid to be sampled and opened at a given depth by cables or valves, depending on product. The sampler is retrieved and samples are transferred to other containers for shipment to a laboratory for analysis. The discrete liquid sampler kits include 25' cable control, cable-control T-handle, cable-control fitting kit, top cap with fluoropolymer valve, dump valve cap (single-valve kit only), metering valve (dual-valve kit only), fluoropolymer container, and two fluoropolymer container caps.

Discrete Liquid Sampler Features:

- Heavier than bailers for smoother, straighter deployment
- Can be used to sample to depths in excess of 25'
- Cable-control T-handle allows upper valve of all models to be opened and closed for discrete sampling
- Easy take-apart design for decontamination and cleaning
- Fluoropolymer container is clear for quick field examination
- Allows for sampling of drums, tanks, lagoons, open waters, and monitoring wells that are 2" ID and larger
- Collected high-quality samples



#2200.20

Discrete Liquid Sampler Kits

Part #	Item	Weight
2200.10	Single-Valve Liquid Sampler with Manual Cable Control	5.6 lb.
2200.20	Dual-Valve Liquid Sampler with Manual Cable Control	6.4 lb.

Discrete Liquid Sampler Kits Replacement Parts

CONTAINER

Part #	Item	Weight
2201.15	12" Fluoropolymer Liquid Sampler Container	0.88 lb.
2205.00	Liquid Sampler Top Cap with Fluoropolymer Valve	0.1 lb.
2205.51	Liquid Sampler Metering Valve (dual-valve kit)	0.5 lb.
2205.03	Liquid Sampler Dump Valve Cap (single-valve kit)	1.2 lb.
2201.30	Liquid Sampler Fluoropolymer Container Cap	0.1 lb.

CABLE

2202.55	Liquid Sampler Cable-Control per Foot	0.1 lb.
2202.60	Liquid Sampler Cable-Control T-Handle	0.1 lb.
2202.50	Cable Control Fitting Kit	0.7 lb.

#2200.20

Manual cable-controlled discrete liquid samplers are heavier than most bailers. They are made using durable stainless steel.



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