

SEDIMENT SAMPLERS

USGS - DH 48



This is a light-weight sampler for collection of suspended sediment samples where wading rod sampler suspension is used. The sampler consists of a streamlined aluminium casing, The sample container is held in place and sealed against a rubber gasket by a hand operated, spring tensioned clamp at the rear of the sampler.

In the sampling operation, the intake nozzle is oriented into the current and held in a horizontal position. while the samples is lowered at a uniform rate from the water surface to the bottom of the stream. The sampler continues to take its sample throughout the time of submergence.

Approximate length = 9 5/8 inches (24 cm)

Weight = 3 1/2 lbs (11.3 kg)

The US P-61 is a cast bronze sampler having an electrically operated valve for collection of a suspended-sediment sample at any point in a stream cross section or to take a depth-integrated sample over a range of depths.

The sampler head is hinged to provide access to the round pint or quart bottle sample container (not furnished) which is located in a cavity in the sampler body. An exhaust port pointing downstream on the side of the sampler head permits escape of air from the bottle as it is displaced by the sample being collected. A valve mechanism enclosed in the head of the sampler is electrically activated to start and stop the sampling process.

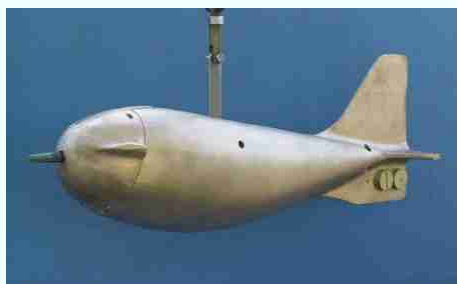
Approximate length = 28 inches (71 cm)

Weight = 105 lbs. (48 kg)

USGS - P 61



USGS - D 74



The sampler has a cast bronze, streamlined body in which a round bottle sample container is enclosed. The head of the sampler is hinged to permit access to the sample container. Tail vanes are provided to orient the instrument into the stream flow. The head of the sampler is drilled and tapped to receive the intake nozzle which projects into the current for collecting the sample. A port, which points downstream, is provided on the side of the sampler head from which air escapes as it is displaced by the sample being collected in the container.

The instrument is suspended on a hanger bar attached to a steel cable and is lowered and raised by means of a reel mounted on a crane.

Approximate length = 24 inches (61 cm)

Weight = 62 lbs (28.1 kg)



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