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Wildlife



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Accessories



AN RDK ENVIRONMENTAL PRODUCT



Silt Sump™ is a new, patent protected, award winning, practical and sustainable innovation which promises to be a game-changer in reducing water pollution on forestry and construction sites, and can be installed by one person in less than 10 minutes.

The Problem

On any forestry or construction site where intensive work is being undertaken – such as harvesting or groundworks – silt is likely to be an issue.

Disruption of soil can lead to sediment being washed into nearby streams, rivers, or lakes, where it can degrade water quality, affecting both human and ecological health.

Excessive silt can smother fish eggs, clog gills and destroy habitats for organisms that depend on clear water for feeding and breeding, as well as polluting drinking water.

Silt erosion can also result in the loss of fertile topsoil, making the land less productive and affecting the long-term health of the local ecosystem.

As such, contractors are expected to take a proactive approach to silt management on site, but existing practices can leave much to be desired.

The Solution

With the invention of *Silt Sump™*, by RDK Environmental, there is now something on the market that is bespoke, created and tested by people from within the industry, and designed to do the job.

When placed in a ditch, the *Silt Sump™* design allows for water to enter at one end and gradually fill the bag, before pouring out the other end. The process interrupts the flow of water, allowing silt to settle and be captured in the trap.

When full, the *Silt Sump™* can easily be either emptied in-situ, or removed by the integrated lifting loops, the silt tipped out, and then reinstalled in the ditch to continue working.

If it looks simple, that's because it is, a huge amount of time and energy was devoted to making it so. Lightweight and durable, the solution has been praised not only for its' performance and reusability but also for its simple installation.

Now attracting interest from forestry specialists, civil engineers and ecologists involved in windfarm and other infrastructure projects, Silt Sump is becoming an essential tool across multiple industries and forms part of standard best working practice on forestry sites.

It creates a capture point that you can see. You can document how much silt is being removed and it looks good. It's another weapon in the armoury which offers accountability and actually proves you are taking your responsibilities to the environment seriously.



Sole Distributors:

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Application Categories: Sediment Pollution Control

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Silt Sump Specification

			
Model	RDK SS 450	RDK SS 800	RDK SS 1000
Size (mm) (W x D x H)	450 x 550 x 450	800 x 550 x 450	1000 x 550 x 450
Flow Rate (m ³ /sec)	0 to 2.5	0 to 4.5	0 to 5.5
Ideal applications	small roadside ditching	forestry road construction ** most popular **	large scale utility and windfarm construction
Features	Side wings, 4 lifting loops, 6 posts slots		
Material	UV stabilised polypropylene, 30% recycled content, chemically inert		
Accessories	50mm diameter x 1.20m long, machine rounded, treated, FSC/PEFC posts		

Installation Guide



1. Select site



2. Secure Silt Sump with 6 posts



3. Dig in and bed in wings on both sides



4. Pack soil and grass around wings/sides to create seal.



5. Add 20kg of 40mm clean aggregate and spread in base



6. Monitor, empty and document

An Award Winning Innovation



Drew Gall, as a quarry manager with Forestry and Land Scotland, was frustrated with the ineffective and environmentally harmful methods used to manage silt runoff (like improperly installed silt netting or straw bales in ditches).

His goal was to create an environmentally sustainable, recyclable, and cost-effective solution to replace existing expensive materials and reduce maintenance. This concept, born out of frustration, won him the £5,000 Emerald Challenge in 2023, run by the Institute of Quarrying, which supports net-zero carbon and sustainability in the industry.

Since winning, Drew, a former Royal Engineer and owner of RDK Environmental, has focused on Silt Sump product development, creating and testing prototypes with industry colleagues. His work was also recognized with an 'Innovator of the Year' award at the Scottish Ex-Forces in Business Awards.

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