

Case study 665

Pump hire arrangement safeguards landfill and local environment

The operators of a landfill site in Scotland encountered drainage issues which could have had huge environmental implications if not promptly addressed. Rain and nuisance water had been collected in drains which were in danger of overflowing. This would have had a devastating impact on the surrounding area, with natural watercourses and wildlife in serious jeopardy.

Our client was looking to safely pump the drainage water into a nearby filtration pond as part of the treatment process, seeking the expertise of Sykes Pumps. It was highly likely that the water had been contaminated by leachate which is hazardous for both humans and animals.

A reliable pump hire solution was quickly required, prompting one of our regional engineers to visit the application before proposing the best course of action. Following discussions with the client, it was decided that our Super Wispaset 80 eco would be perfect for the project due to the pump's unique features and benefits.

It was expected that the unit would need to operate continuously on occasion, making fuel efficiency a primary consideration. Our Super Wispaset 80 eco consumes just 1.4 litres of diesel per hour, guaranteeing economical performance and low running costs. The presence of offices and a stable of racehorses nearby necessitated that any pump solution be capable of quiet functionality. This pump is housed in a market-leading acoustic canopy, keeping noise to a minimum even when operating at full capacity.

A fully bunded built-in fuel tank eliminated the possibility of oil spilling on site and provided the client with additional peace of mind. The pump was also deliberately situated near to a track on site, simplifying the refuelling process without affecting any other aspect of the scheme.

Since being installed, our pump has flawlessly handled and redistributed drainage water whilst complying with our client's environmental and noise obligations. By delivering a tailored solution at the first time of asking we have ensured that an ecologically sensitive project is safely carried out and eliminated the potential for Environment Agency intervention, fines or reputational damage.



Performance: Max head: 24 m

Max flow: 36 l/s

Max solid: 40 mm

Weight: 890 kg with fuel

856 kg without fuel

Dimensions: 1800 x 1100 x 1400
(L x W x H)

Noise level: @ 1m = 72 dBA
@ 7m = 64 dBA

Fuel tank capacity: 35 litres. Max 24 hours

Pipe connections: Suction: 4" Table D
Discharge: 4" Table D
Bauer couplings option: 3"

Fuel consumption: Full load @ 1800 rpm:
1.99 litres/hour



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