

# Case study 628

## Floodwater removed from landfill site

At Sykes Pumps, we have a long history of providing a variety of solutions to landfill waste sites, regardless of the issue at hand. This extends to pumping leachate created when water falls on site and runs down through waste, before eventually being collected in both solid and liquid form. Leachate is also often pumped into holding tanks and either transported off site or treated locally.

The flooding of solid waste landfills has the potential to become a long-term environmental risk, which is why we were called in to a site in Kent following prolonged periods of rainfall early in 2015. Constant downpours over consecutive winters had caused localised flooding, making conditions extremely difficult for in-filling to be executed effectively. Several layers of lining must be installed to seal up the land base before waste can be deposited, but this cannot be done properly if submerged by floodwater.

In order to counteract the problem, we hired a series of submersible and diesel driven pumps to the client. These were installed within days of our contact centre receiving the enquiry and operated in unison to help remove the unwanted liquid.

The customer in question has been using our equipment for a number of years and was, therefore, well aware that we had the capacity to provide the appropriate units quickly. Despite having to transport the pumps across difficult terrain, they were set up within a short while of our arrival at the location – helping to alleviate the pressures caused by the severe weather.



Performance Max head: 31 m, Max flow:  
45 l/s, Max solid: 44 mm  
Weight 1011 kg with fuel, 907 kg without  
fuel  
Dimensions 1940 x 1450 x 1500  
Noise level 77-82 dBA @ 7 m  
Fuel tank capacity 69-122 litres. Max 24  
hours  
Pipe connections Suction: 4" Table D,  
Discharge: 4" Table D, Bauer couplings  
option  
Fuel consumption Full load @ 1800 rpm:  
3.7 litres/hour



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