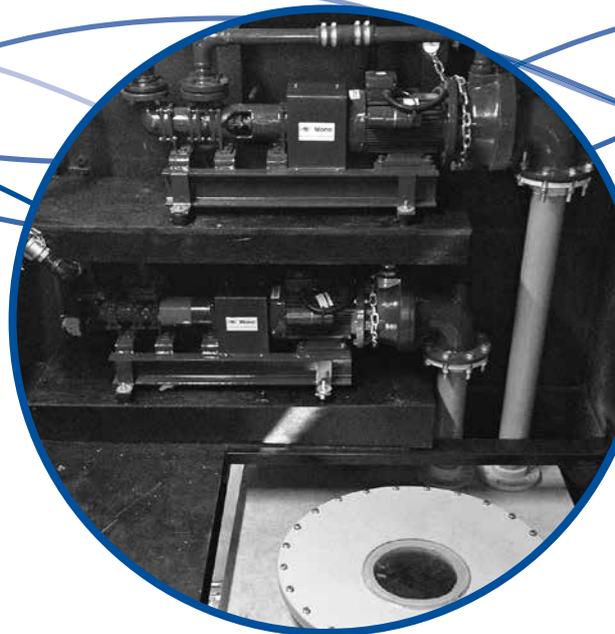


NOV MONO HELPS SOLVE SEWAGE HANDLING PROBLEM FOR HISTORIC VESSEL



An historic British ship is now benefitting from efficient and reliable sewage handling thanks to the installation of new equipment from NOV Mono. The new duty and standby Mono Mutrators installed on the sloop, HMS Wellington, replaced its original Mono™ equipment which had given good service since it was installed in the early 1950's.

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|------------|----------------------|
| Equipment: | 2 x Mutrators |
| Product: | Ship waste |
| Capacity: | 15m³/h |

The HMS Wellington is permanently moored at Temple Pier on London's River Thames, and acts as the headquarters ship of the Honourable Company of Master Mariners. When the original onboard sewage tank began to leak and required replacing, the decision was also taken to replace the original Mono equipment after around 60 years of loyal service, which had been used to macerate and pump sewage and waste from the ship's facilities.

"The original Mono equipment had worked well for many years so the decision to install the Mono Mutrators was not difficult, especially as they offered a compact solution which would fit into the restricted space available," explains Ships Engineer, Martin Brownjohn. "The result is a system that is both quieter and smoother than previously, which is important as our onboard conference room facilities are located right next door to the new equipment."

The Mono Mutrators installed on the HMS Wellington combine a progressing cavity pump, together with a tri-hammer macerator. The pump lifts the raw sewage from the reception tank

into the cutting chamber where it is macerated before being pumped away to the main sewer on the banks of the Thames. When the pumping cycle ends, un-macerated material falls back into the sump, clearing the suction pipe for the next duty run and thus ensuring efficient and reliable operation every time. "The new Mutrators are continuing the pattern set by the original Mono equipment working very effectively," adds Martin Brownjohn.

There are various design options which enable the Mutrator to be tailored to suit the needs of individual applications. In order to keep overall system design and construction costs to a minimum, Mutrators can be installed either vertically or horizontally, and used with various drive options to obtain the correct pump speed. They can be added into an existing pump house, or supplied as a complete sewage pumping station in a GRP kiosk, ready to be installed and operational within 2 hours of delivery.



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