

Mobile Solutions help INEOS ChlorVinyls, UK

Chemicals | Case Study

The Client

INEOS ChlorVinyls is a major manufacturer of industrial chlor-alkali chemicals. A global leader in chlorine derivatives and Europe's largest PVC manufacturer, the company's products include a number of familiar trademarks such as CERECLO™ and NORVINYLT™.

Located in the heart of the North West UK's chemical industry, the company's Runcorn Site manufactures a full range of chlor-alkali chemicals including chlorine, sodium hypochlorite, caustic soda and hydrochloric acid as well as vinyl chloride and chlorinated paraffins.

INEOS ChlorVinyls has a strong commitment to the highest standards of safety and environmental performance.

Key Figures

- INEOS ChlorVinyls' manufacturing process depends on cooling system
- Cooling system had to remain operational during replacement of cooling towers
- INEOS ChlorVinyls' industrial customers depend on supplies

The Client's Needs

INEOS ChlorVinyls' wooden cooling towers were to be replaced but shutting down the cooling system would result in lost production, so the towers were to be replaced one at a time. In order to complete the on-line change 50m³/hr of cooling water, contaminated with demolition debris, flowing into the sump of the off-line tower had to be handled and treated.

Commissioning Manager Eddie Sloane considered his options: discharge the water to drain or recover it back to the cooling system. The first option would overload the drains, and replacing the lost water with mains water would be expensive and would exceed the capacity of the cooling system make-up water treatment plant. The second option needed a pumping and filtration system to remove the demolition debris.

The Solution

Veolia Water Technologies's solution was to provide an Mobile Water Services temporary plant consisting of pumps and two stages of filtration: coarse strainers followed by bag filters.



The skid mounted plant was designed, built and delivered to site within only a few days. The bespoke system remained there for two months until the tower replacement had been completed. Removing the debris from the water and retaining it, and the cooling water conditioning chemicals that it contained, was not only a more environmentally friendly solution but also allowed continued operation of the cooling system at full duty.

As a bonus, by comparison with disposing of the contaminated water and replacing it with mains, the Mobile Water Services solution saved them around £30,000.

The Benefits

- Prevented discharge of contaminated water
- Conserved water in cooling system
- Cost saving around £30k

Emergency rental

Continuity for any production cycle is essential. In the case of an emergency, Mobile Water Services can mobilise and send to your site a temporary water treatment system within a trailer or container. This can normally be with you in less than 24 hours, freight time dependant. This will either replace or supplement your existing water treatment facility and if required an Mobile Water Services engineer will operate the equipment.



In addition, Mobile Water Services offers to its customers the PREACT service. This is a comprehensive survey of your water treatment plant to develop a Site Response Pack in the event of an unplanned incident happening. If you are required to call us this ensures the correct equipment and ancillary items are delivered to produce treated water in the fastest possible time.

Planned temporary hire

Planned temporary Mobile Water Services services are typically used for new plant commissioning applications such as steam blowing, chemical filling, temporary production of extra water, maintenance outages etc. Mobile operations may be planned in advance of the requirement, typically contracts may last from one week to 12 months.

Long-term contract

Thanks to our full on-site service, temporary hire contracts can move to long term contracts (multiple years) if required.

Veolia Water Solutions & Technologies has developed the Mobile Water Services service based upon our experience of the needs within the industrial water treatment market. Our aim is to provide our clients with security of supply of this important resource and to allow them to focus on their core business.



Mobile Water Services, the VWS brand for Mobile Water Solutions, offers a complete range of technologies and services to meet all emergency, planned or long term treated water needs. Some key features are:

- Large fleet of trailers and containers
- Full assistance and availability
- High flow rates capacity solutions
- Continuous production
- ReAct preventive service
- Pure water production: filtration, softening, reverse osmosis, ion exchange
- Wastewater treatment: clarification, dissolved air flotation, MBR, ultrafiltration, evaporation, etc

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