

EFFLUENT TREATMENT



Successful businesses operating in the modern world recognise the need to operate in an environmentally sustainable manner. Water is the most widely used natural resource and it is important to conserve water by minimising wastage; increasing recycling and re-use; and by minimising the impact of discharges on natural water systems. As a result, both UK and EU regulation requires that industry meets ever lower emissions limits.

the quality of process water prior to discharge. Envireau Water has extended its services to provide a comprehensive solution for water abstraction, effluent treatment, water recycling and re-use, and discharge.

WATER UTILISATION

Envireau Water has well-established expertise in water abstraction and supply and in negotiating abstraction licences and environmental permits. It is increasingly recognised that to obtain licences and permits, companies need to consider how to make the most efficient use of the water abstracted. Consequently, it is often necessary to look for opportunities to reduce water consumption or to restore



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The treatment of effluents and their subsequent discharge is an important aspect of many businesses including those in the following industries:



Agriculture & Horticulture



Built Environment



Food & Drink



Manufacturing & Pharmaceuticals



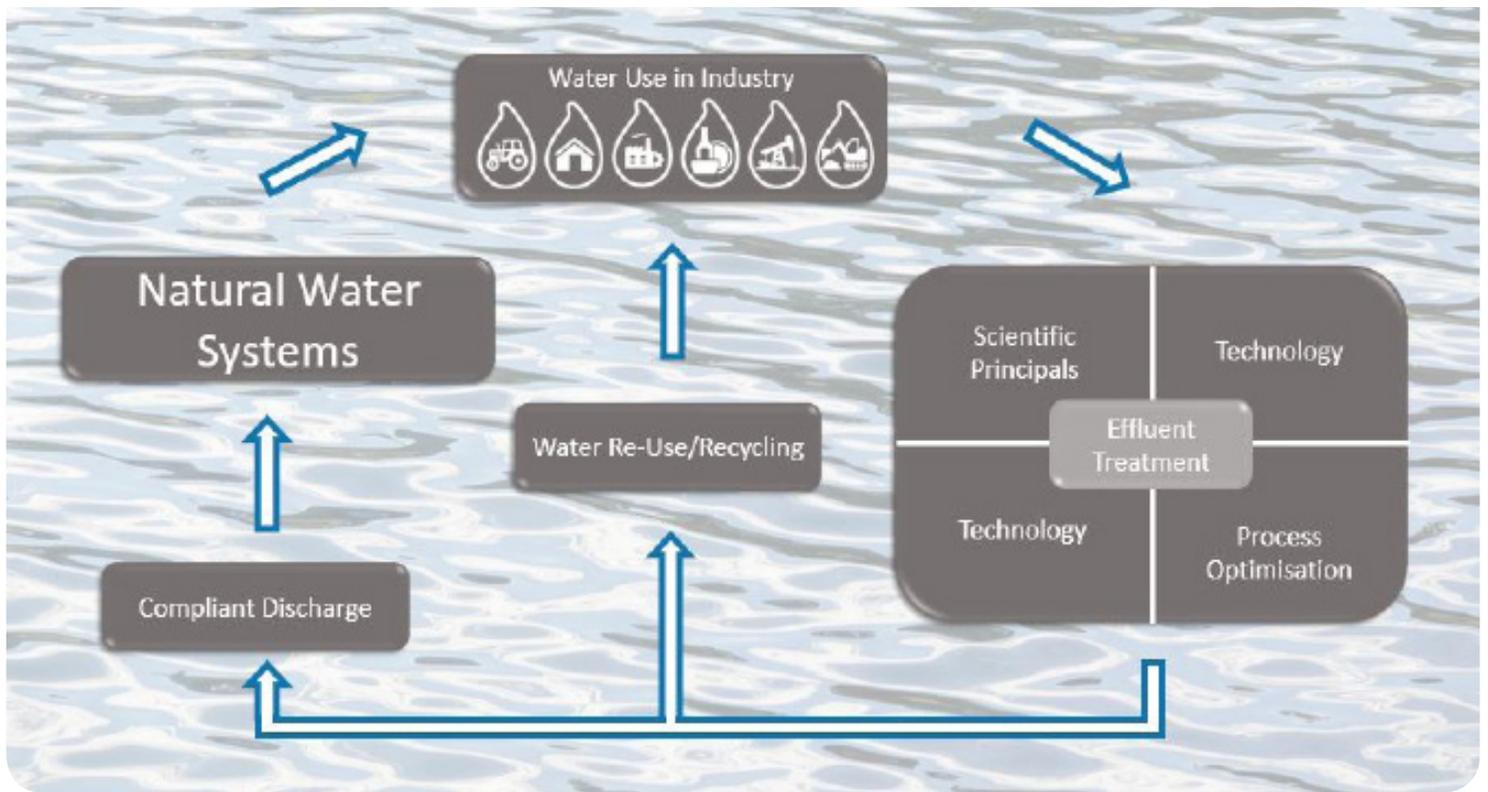
Oil & Gas



Quarrying & Mining

Here at Envireau Water, we appreciate that effluents can vary greatly not only between industries, but between different sites handling similar products, in response to the processing options that have been selected.

Effective effluent treatment is essential but can be associated with significant costs. With many different biological, chemical and physical treatment options available it can be difficult to know which treatment option is best in delivering the right effluent quality at the right cost. Envireau Water's expert staff have a background in the treatment of a wide range of effluents and will help you in making the right decisions. Envireau Water will support you the whole way through your effluent treatment journey from understanding the waste water; identifying relevant processes; developing a concept design; and managing the regulatory process.



OUR EXPERTISE

Envireau Water has notable expertise in a wide variety of treatment methods with significant experience in the operational and design requirements of a wide range of processes. We can provide support in solids removal through coagulation, filtration, settlement ponds and clarifiers; and have an extensive background in the operation and control of biological treatment processes, working with both suspended growth and attached growth biological treatment systems. This has been applied to a range of complex wastewaters including the removal of BOD, COD and nitrogenous substances. Our team also has practical experience in a variety of chemical treatment processes including chemical precipitation and chemical oxidation. Furthermore, Envireau Water is able to take a holistic approach to water management on site. Our team can assess water needs and requirements from abstraction to treatment and discharge. We can assess the flow and chemistry of different water streams, establish suitable treatment methods and evaluate their potential for re-use in other process systems which can lead to cost savings in water abstraction requirements and discharge charges.

Additionally, our team is experienced in the characterisation of wastewater streams and the assessment of their suitability for re-use. This can be combined with our expertise in the completion of water balances to ensure that water re-use is maximised wherever possible.

Knowledge of the Water Framework Directive, the Industrial Emissions Directive and keeping up to date on the latest UK regulations is of paramount importance to our team and enables us to couple our practical, cost effective solutions to the changing regulatory requirements.

It is essential when considering treatment options to be able to ensure that the whole process is fit for purpose. If you are involved with contractors, Envireau Water can advise on treatment requirements and process design from start to finish, or provide advice and reassurance on whether the options proposed are really suitable for your needs.

HOW WE CAN SUPPORT YOU

-  Provide independent and objective advice on treatment options
-  Troubleshoot an existing treatment process
-  Provide advice on process monitoring and control
-  Advise on best available technologies
-  Suggest treatment improvements to achieve lower emission limits and regulatory compliance
-  Support water discharge applications
-  Advise on options for water recycling/re-use



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