

ETPPS- Series ETP Pre-Treatment Filtration



ETP Pre-Treatment Filtration System



The objective of this system is to reduce the turbidity of fed water which will reduce solid loadings fed to the sedimentation tanks if a WyunaSep system fixed before a sedimentation tanks of a water treatment facility.

WITH the rising of water shortage problems and decreasing of water resources due to climate changes, the need for using all type of available water is increased, such as the re-treatment of waste water; increase the independent on water wells, water disposed from different industries, usually these types of water brings different types of suspended solids, the WyunaSep separators come into existence as a sound and proved technological alternative in separation these solids from water.

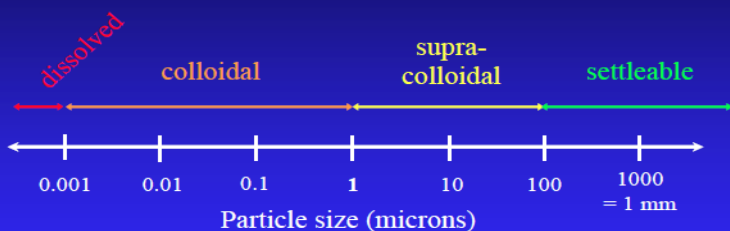
WyunaSep Separator can improve the operation of water treatment facility and reduce the cost of operation by reducing the turbidity of water pumped into the treatment facility. In the water industry there is a wide use to the conventional gravity based vessels which are bulky, heavy and expensive to separate multiphase flow. The difficulty and the cost of accommodate these separation facilities has provided the incentive for development of compact separation technology, WyunaSep system has emerged as an economical and effective alternate for many such applications, WyunaSep is environmental, simple in design with no moving parts, easy to install and operate, and has low maintenance cost





Waste Solids

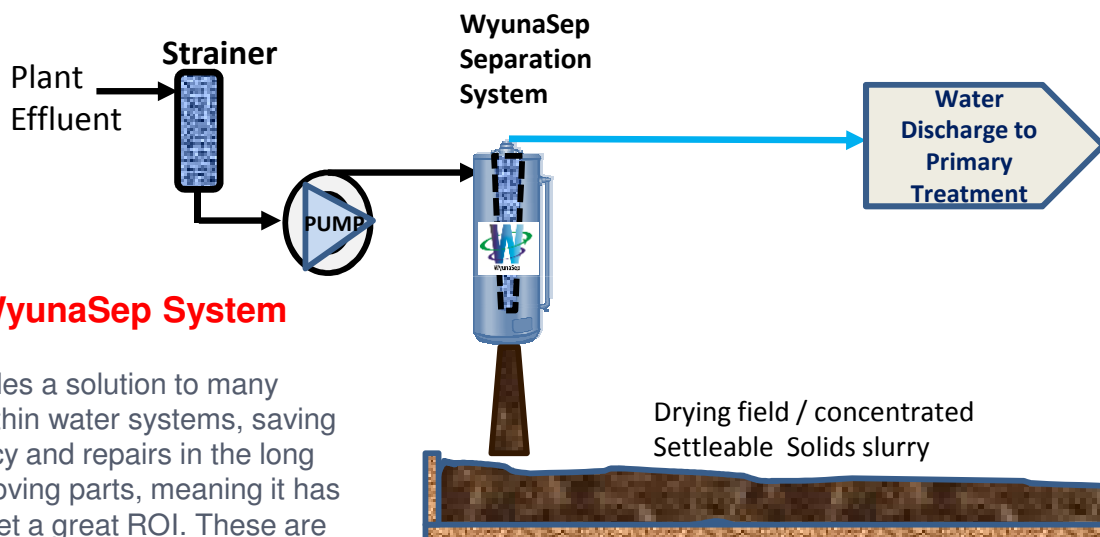
Size characterization



The total suspended solid (TSS) concentration is defined as the mass of particles above 1 μm in diameter occurring in known volume of water.

Suspended solids have both Inorganic and organic component. The organic portion, known as volatile suspended solids (VSS), contributes to oxygen consumption and biofouling problem (you can call it BOD particles as well) The inorganic components contribute to formation of sludge deposits.

As shown in the picture - Physically suspended solids can be partitioned further into Settleable solid ($>100 \mu\text{m}$), Supra colloidal ($<100 \mu\text{m}$ and $>1 \mu\text{m}$), Colloidal and Dissolved.



Advantages of Using WyunaSep System

A WyunaSep separator provides a solution to many problems caused by solids within water systems, saving you money in system efficiency and repairs in the long term. The filter also has no moving parts, meaning it has no operational cost - so you get a great ROI. These are just some of the many benefits that can be gained by applying a WyunaSep separator to your system:

- No filter elements, screens, bags or media
- Less space required to do the similar job with conventional systems
- Lesser chemicals required in further treatments
- Efficiency of the further treatments improves, as it reduces the solids load & in some cases BOD as well
- No cleaning costs
- No down time – continuous filtration
- Low water loss when purging
- Low pressure loss
- No backwash

For more details about above process or regarding our other products, please visit our website www.wyunasep.com or contact us on

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