



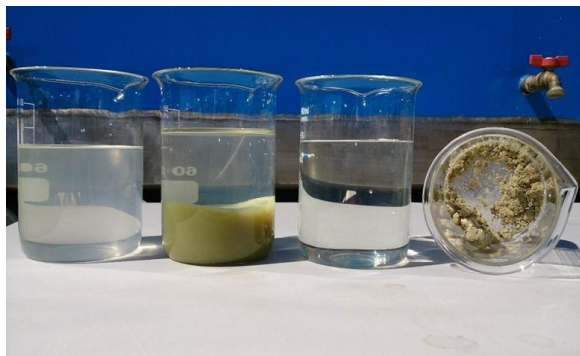
SoneeraWater



ALL-INDUSTRY WASTE WATER TREATMENT

Fracking waste water
Turnkey sewage treatment
Cooling tower treatment
Heavy metals removal
Silica removal

The waste water specialists



Revolutionizing water re-use

Introducing the most cost efficient and effective waste water treatment system

System Treatment Capabilities

- Halogenated hydrocarbons
- Benzene ring structures
- Monomers and polymers
- Asbestos, clay and other suspended solids
- Silica Oxide
- Some low atomic ions, B, F, Mg, Al, Ca
- Nitrates and nitrites
- BOD/COD
- Free and emulsified fats, oils, grease
- >C6 Hydrocarbons
- Cations with atomic number >23 (including hexavalent chromium)
- Anions with atomic number >33, (including bromide and iodide)
- Cyanide, arsenate, phosphate
- Pathogens, algae, bacteria and viruses
- Soaps and detergents
- Removal of radioactive contaminants

The Soneera Water treatment system is a continuous flow operation that contains no filters or membranes and is capable of treatment to nano-filtration level. The system uses no chemicals and minimal power to clean 95% of all waste water types. The system operates 24/7 without stopping or human interaction for approx. 100 days.

The system operates by releasing ions into the waste water, binding to the waste particulates and floating them to the surface; creating a flocculent similar to the froth on a cappuccino. The waste flocculent is removed, leaving clean recycled water - achieving a 95% recovery rate.

Regardless of the waste water type, this system is suitable as a standalone treatment system or a complementary system to support existing infrastructure, such as an RO or membrane plant.

MARKET DIFFERENTIATION

WHAT MAKES SONEERA WATER DIFFERENT?

PRICING

Soneera Water designs, manufactures and commissions its plant without outsourcing key functions. This ensures the Capital Cost of the plant is competitive. There are very few consumables with the Soneera Water system. The operational costs are often 50% less than existing infrastructure or competitor quotes.

FOOTPRINT

The physical footprint of the Soneera Water system is often one-fifth the size of a traditional treatment plant. The environmental footprint is exceptional: no chemicals, reduced power, 95% waste water recovery and minimal waste/sludge created.

MULTIPLE WASTE STREAMS

The Soneera Water design allows a changing waste stream to be managed without the requirement for traditional pre & post treatment technologies. For instance, if a mining company moves a Soneera Water plant from one drill head to another, the system is capable of meeting the effluent parameters with only slight software changes performed remotely or by the client on site.

CUSTOMIZED SOLUTIONS

Soneera Water can rapidly design and build a customized solution for your unique site. Our engineering team can design, construct and install under their general contractor's license, making the implementation simple, fast and effective. Turnkey or complementary systems are available.

40' SYSTEM SPECIFICATIONS

Footprint	304ft ²
Lengthxwidthxheight	38' x 8' x 9'
Dry Weight	26,400lb
Operational Weight	70,400lb
Power usage	0.4 to 1.0 kWh/m ³
Power required	<20kVa
Maximum daily throughput	approx. 150,000 gal/day
Water Recovery rate	approx. 95%
Operational costs	approx. \$0.004 cents /gal

PROCUREMENT OPTIONS

- Capital purchase
- 3 & 5 year term leases
- Lease to own
- All systems come with comprehensive scheduled servicing



INDUSTRY & MARKETS

The Soneera Water system is highly mobile, scalable and suitable for a wide range of uses. Some of these are listed below:

- Small township sewage treatment
- Creating safe, clean drinking water – humanitarian or municipal support
- Manufacturing industry
- Oil, gas and fracking industry
- Commercial and industrial treatment prior to sewerage discharge
- Removal of silica in cooling towers
- Disaster relief operations - FEMA
- Military operations – secure, on-site provision of drinking water

SONEERA WATER'S UNIQUE FEATURES

- No filters to clog & no backwashing
- 98% of contaminants removed
- Very low energy use - typically <20kW for 275,000 GPD
- Automated process with remote monitoring
- Scalable from 75,000 GPD to over 10 MGD
- Complements other water treatment processes
- Very small footprint – 0.2 MGD fits into a shipping container

SONEERA WATER'S TECHNOLOGY SUCCESSES

- Recycling fracking waste water for further fracking operations
- >90% of silica removed from power generation cooling towers
- Treating raw sewage and commercial waste to 3rd World drinking quality
- Discharging mine waste water and storm water under an EPA license
- Capturing all wash-down waste water from city garbage trucks in a closed loop
- Pre-treating water before an RO in a food manufacturing facility
- Providing drinking water in remote cities and prisons from local rivers & creeks

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