



THE TOTAL SOLUTION IN WASTEWATER / SLUDGE TREATMENT

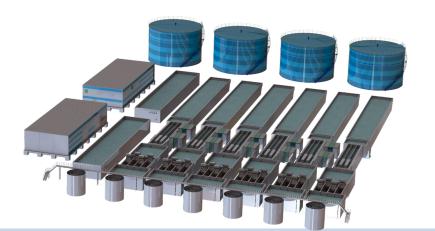
Flo-Clear Water Systems Inc. - Milestones SLUDGE Treatment Plant 120 tons/day Wastewater Treatment Plant 250 gal/min (60m3/h) **WWTP-050** 1-st WWT Mobile Plant -WWTP-060PS capacity of 200 gal/min capacity of 50 gal/min wastewater treatment = 250 gal/min sludge treatment = 120 tons/day 2006 2021 2006 2016 2019 2020 2009 **WWTP-020** WWTP-030PS capacity of 100 gal/min capacity of 150 gal/min Nitrates and Phosphates Treatment Plant 150 gal/min (30m3/h)





2020 2021 2023 2024 **2025**

WWTP-100kPS wastewater treatment = 20,000 gal/min sludge treatment = 5,000 tons/day



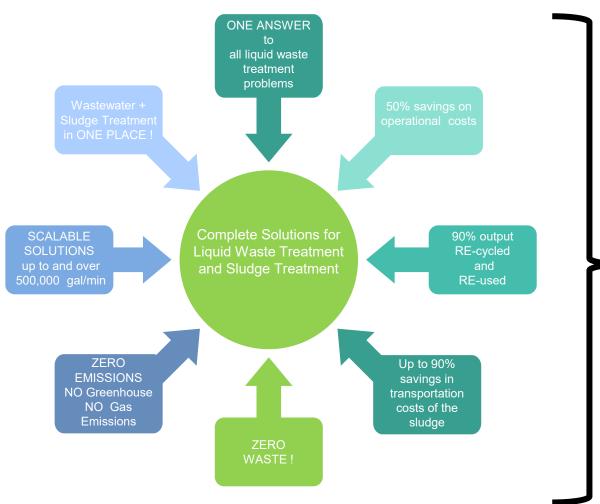
WWTP-150kPS wastewater treatment = 30,000 gal/min sludge treatment = 8,000 tons/day





Complete Solutions for Liquid Waste Treatment and Sludge Treatment

based on Nano-Technology, Nano-Filtration and Smart materials (technology developed with Granted Funds from European Union in 2019).

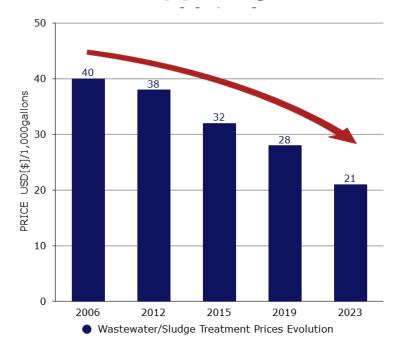


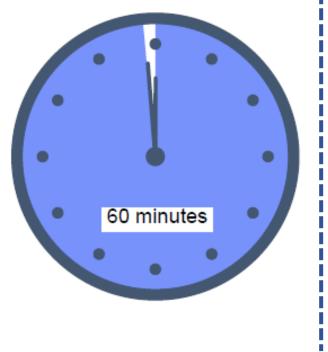
2x improved performance

FLOCLEAF

Improved Prices 2023 – Flo-Clear Water Systems Inc.

For Industrial Wastewater/Sludge Treatment USD[\$]/1,000gallons





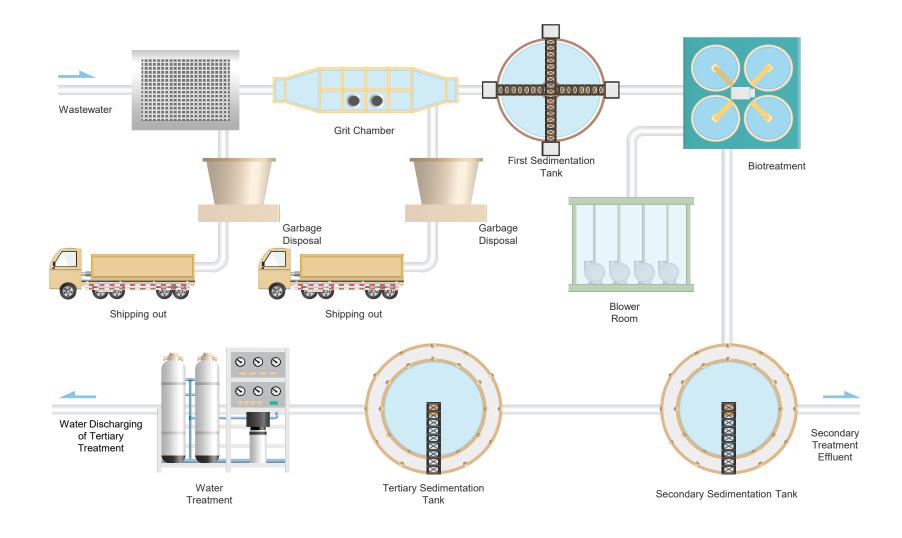


PROCESSING TIME WITH THE CLASSIC TECHNOLOGY

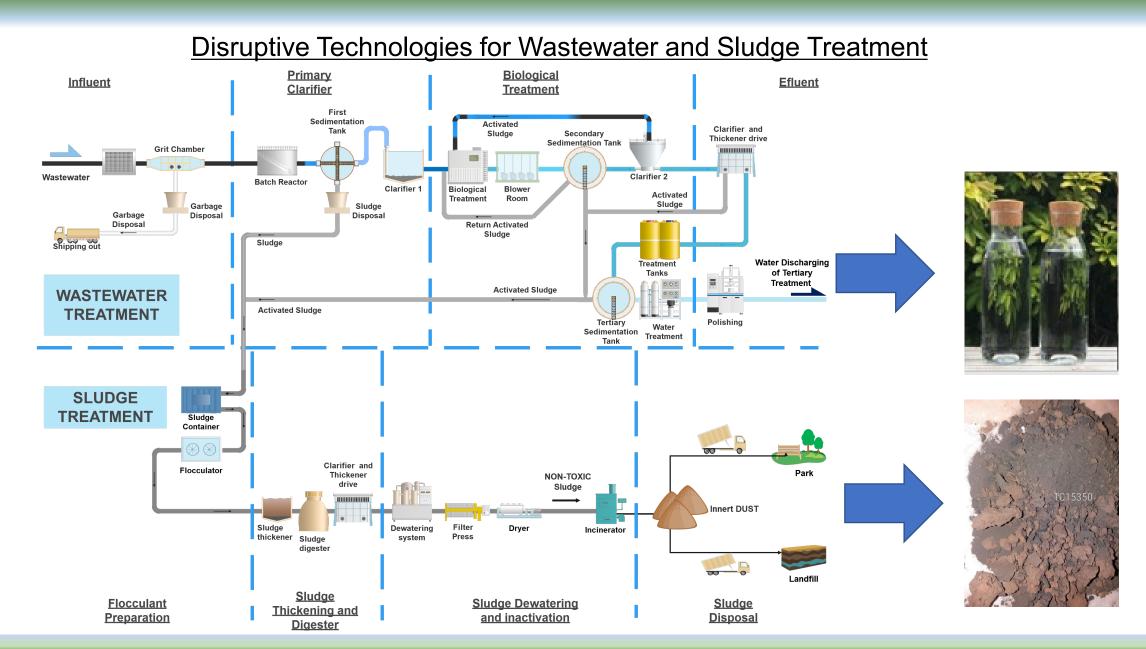
FLO-CLEAR Water Systems Inc. **SAVING PROCESSING TIME by 50%**WITH THE NEW TECHNOLOGY



Traditional Wastewater Treatment Process







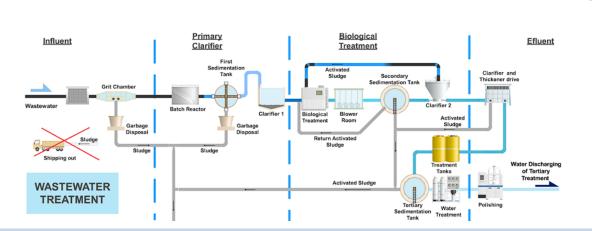


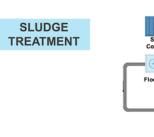
Core technology:

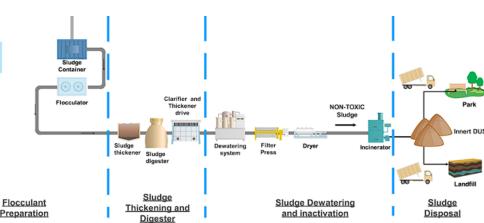
Liquid Waste
Treatment
Facilities

Disruptive technologies and applied solutions for water and hazardous liquid-waste treatment*

*Patented in E.U. and North America





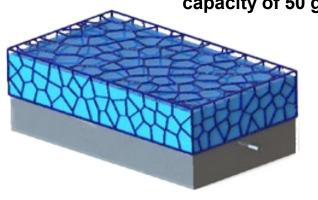


Sludge Treatment

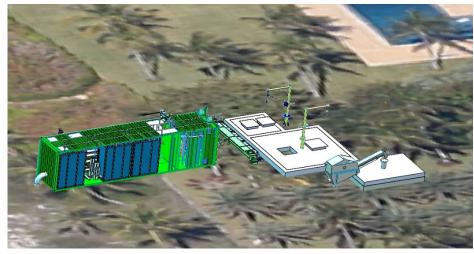
Facilities

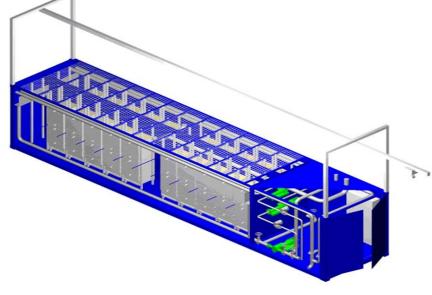


1-st WWT Mobile Plant capacity of 50 gal/min









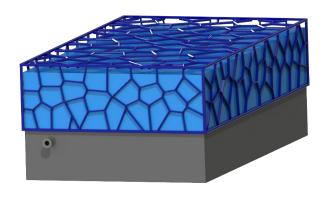




WWTP-020 capacity of 100 gal/min











Case Study - SCALABLE TREATMENT PLATFORM



Naples, Florida, U.S.A. Beach Outfalls

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HOUSE
OUTFALL S

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We started in 2005 with small mobile units (10mc/h approx. 50 gal/min) to be able to achieve full scalability in the upcoming years.

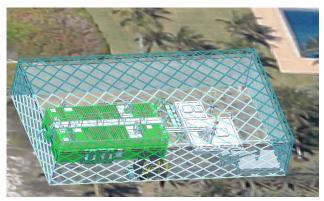




Figure 1-3. Typical Outfall Blockage (Outfall 9)

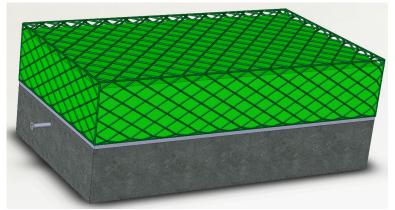
Arrangement of the Portable Wastewater Treatment Stations near Naples beach Outfalls



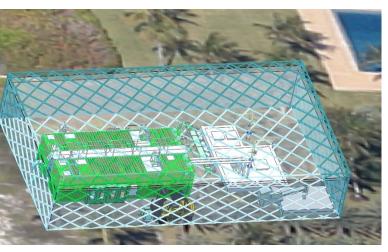


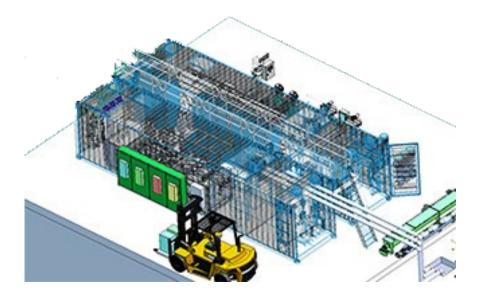
FLOCLEAR

WWTP-050 capacity of 200 gal/min













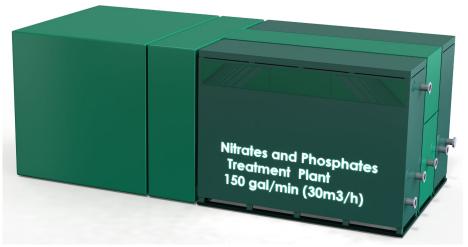


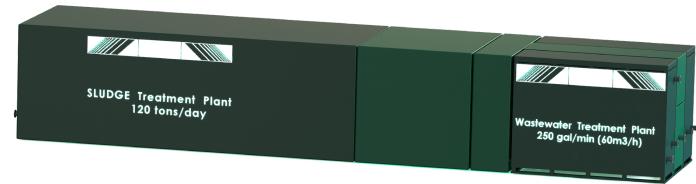




WWTP-030PS

capacity of 150 gal/min





WWTP-060PS

wastewater treatment = 250 gal/min sludge treatment = 120 tons/day

Concept Design proposal for: Piney Point Reservoir, FL, U.S.A.

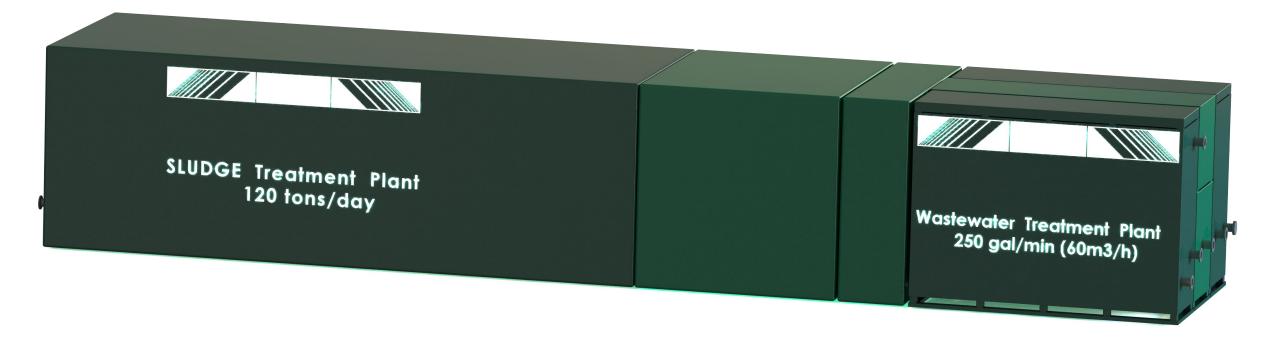
- Capacity: 1,200 gal/min
- Built Area= 4,000sqf
- Reference E.U. Project
- Including disruptive technologies





WWTP-060PS

wastewater treatment = 250 gal/min sludge treatment = 120 tons/day





WWTP-100PS

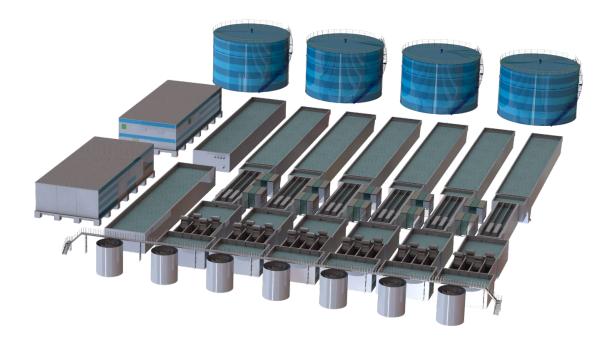
wastewater treatment = 500 gal/min sludge treatment = 200 tons/day





WWTP-100kPS

wastewater treatment = 20,000 gal/min sludge treatment = 5,000 tons/day



Concept Design proposal for:

Northern Pulp - Nova Scotia - Canada

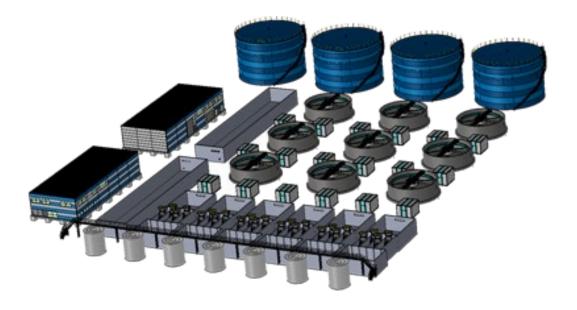
- Capacity: 20,000 gal/min
- Built Area = 300,000sqf
- Reference E.U. Project
- Including disruptive technologies





WWTP-150kPS

wastewater treatment = 30,000 gal/min sludge treatment = 8,000 tons/day



Concept Design proposal for:

Northern Pulp - Nova Scotia - Canada

- Capacity: 30,000 gal/min
- Built Area = 330,000sqf
- Reference E.U. Project
- Including disruptive technologies





Tests executed at an existing Wastewater Treatment Plant with a Prototype Treatment Station (PWTS-05)

The Wastewater Treatment Plant had a capacity of 150gal/min with a rate of success of 30% (with No treatment of the sludge).

The liquid waste contained heavy metals and high-risk pollutants coming from different industries. With our technology we were able to reach **100%** cleaning of the wastewater and sludge. Please see below pictures taken during a Test performed with our Treatment Station with a success rate of **100%**.

Raw sewage feed



Plant Effluent



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Big Wastewater Treatment Plant facility near City of Iasi, Romania Capacity: 150 gal/min

Treated wastewater



Treated sludge



Sludge disposal



SLUDGE Treatment: How does it work?



The advanced smart materials used help a lot for the treatment process.

Only a few simple smart steps are necessary throughout the entire treatment process.

SLUDGE REACTOR BLOCK

Flocculation with admixes advanced smart materials and other chemicals

SLUDGE Thickening and Digester

Mixing with Chemicals and Sludge degradation, capture and separation of contaminants

SLUDGE INACTIVATION

here the traces amounts of small flocs and residual micro-particles are easily removed

SLUDGE DEWATERING

already thickened sludge collected from treatment, clarification and polishing is mechanically extra-dewatered

INCINERATION AND DISPOSAL

sludge-waste is processed using a proprietary solution, then is mineralized by a last generation thermal treatmen























The result it's a powdered mineralized substrate which is non-toxic and safe to be disposed on soil or to be stored as inert material. Substrate is enriched with minerals and organic carbon



Trials (scouting for solutions for different feed streams)

Year 2019, London, Wastewater Plant SW-London / Prototype Capacity= 15 gal/min / Built Area= 86sqf

<u>Schematic representation of the conducted Tests</u>

Prototype Unit - Test 1:

View of Reactor block Mixing tank





5 treatment stages



Raw sewage feed 1



Treated wastewater 1



Prototype Unit - Test 2: View of Reactor block Mixing tank





5 treatment stages



Raw sewage feed 2



wastewater 2



Treated

Filtration efficiency

including safety

factor

Filtration efficiency including safety factor



Our capabilities

INNOVATION AND DEVELOPMENT IN EVERY PROJECT **DESIGN & BUILD FACILITIES (standard or customized):**

- Liquid waste treatment categories:
 - ➤ Sewage
 - ➤ Industrial & biohazards
 - ➤ Electroplating
 - ➤ Fracking
 - ▶ Leachate
 - **≻**Radioactive
- Wastewater / Sludge treatment, inactivation and disposal
 - **≻**Low cost
 - Fully compliant with Environment Regulations
 - ➤ No pollution generated during processing
 - ➤ No greenhouse emissions
- Commissioning
- Service 24/7

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