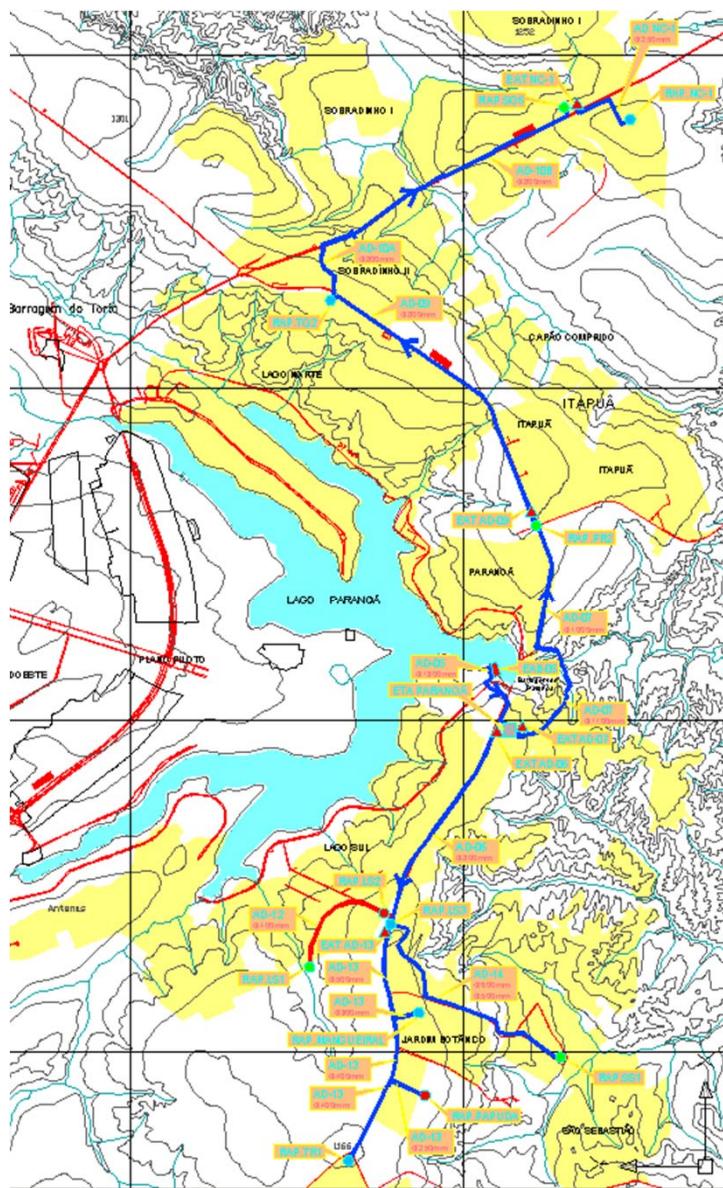
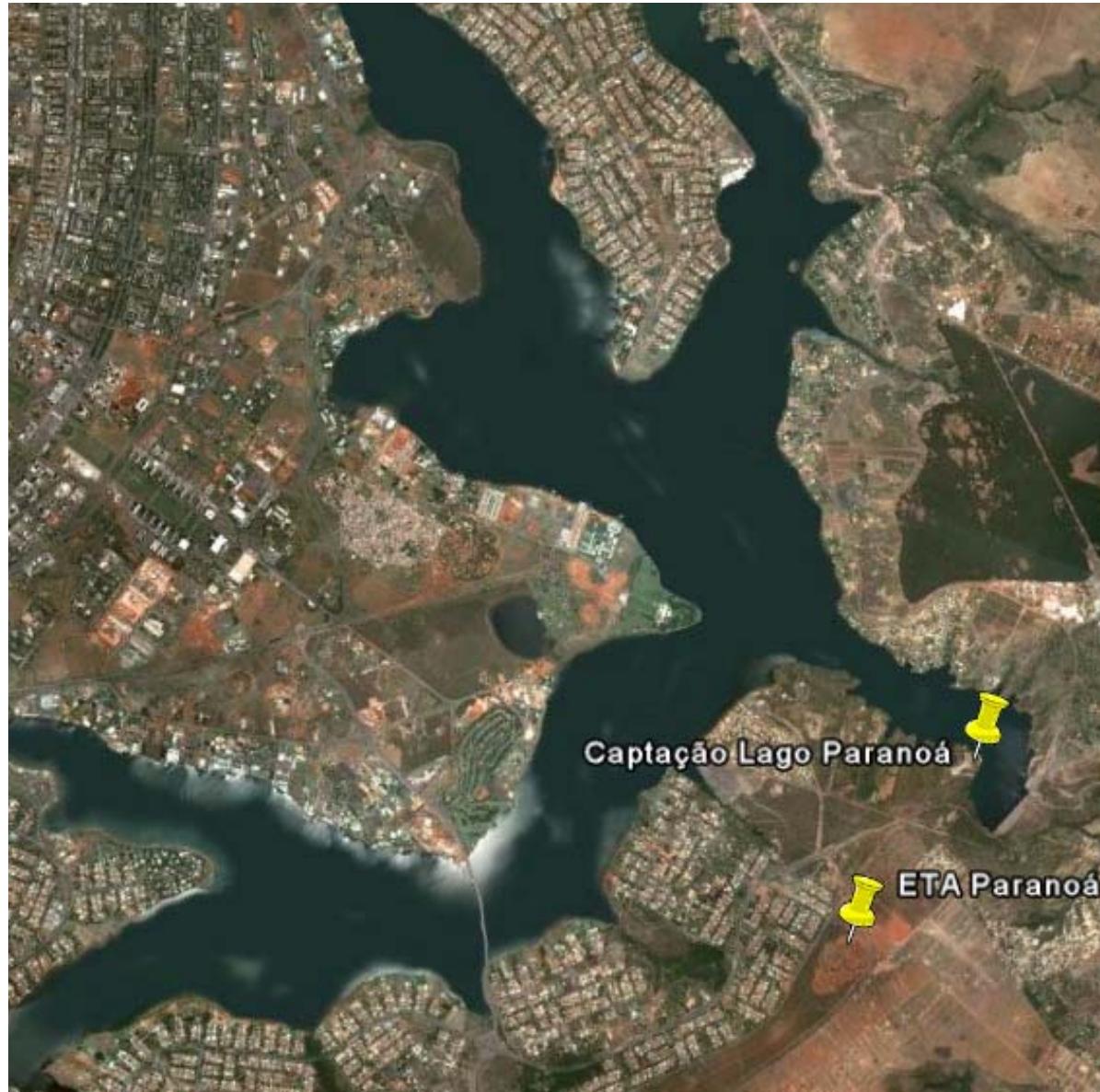


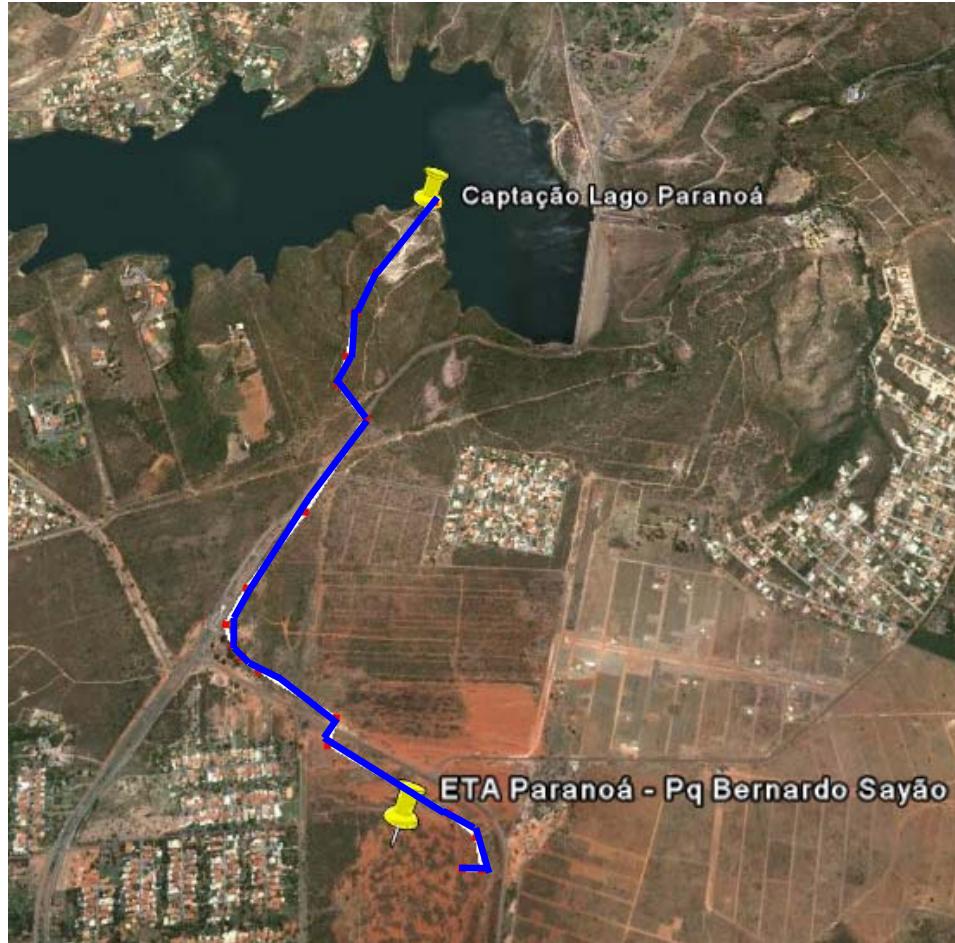
Options in Water Treatment For Paranoá Lake Part II

Fuad Braga, Tanya Bailão, Claudia Simões, Klaus Neder



1. Uptake and Raw Water Pumping Station;
 2. Raw Water Pipeline;
 3. Water Treatment Plant – ETA;
 4. Treated Water System (treated water pipelines, reservoirs and pumping stations).





Characteristics:

Flow = $2,8 \text{ m}^3/\text{s}$

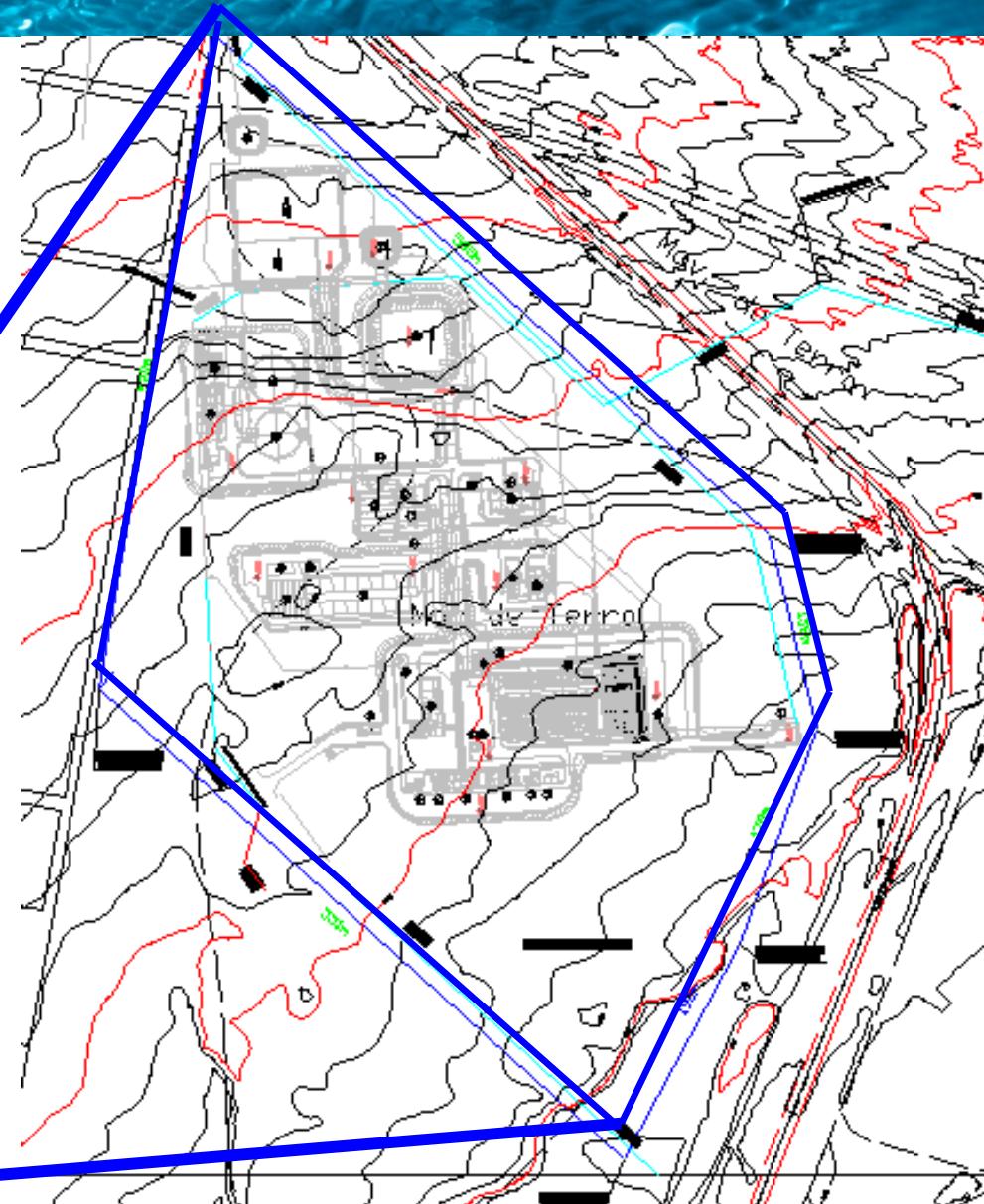
Extension: ~3 Km;

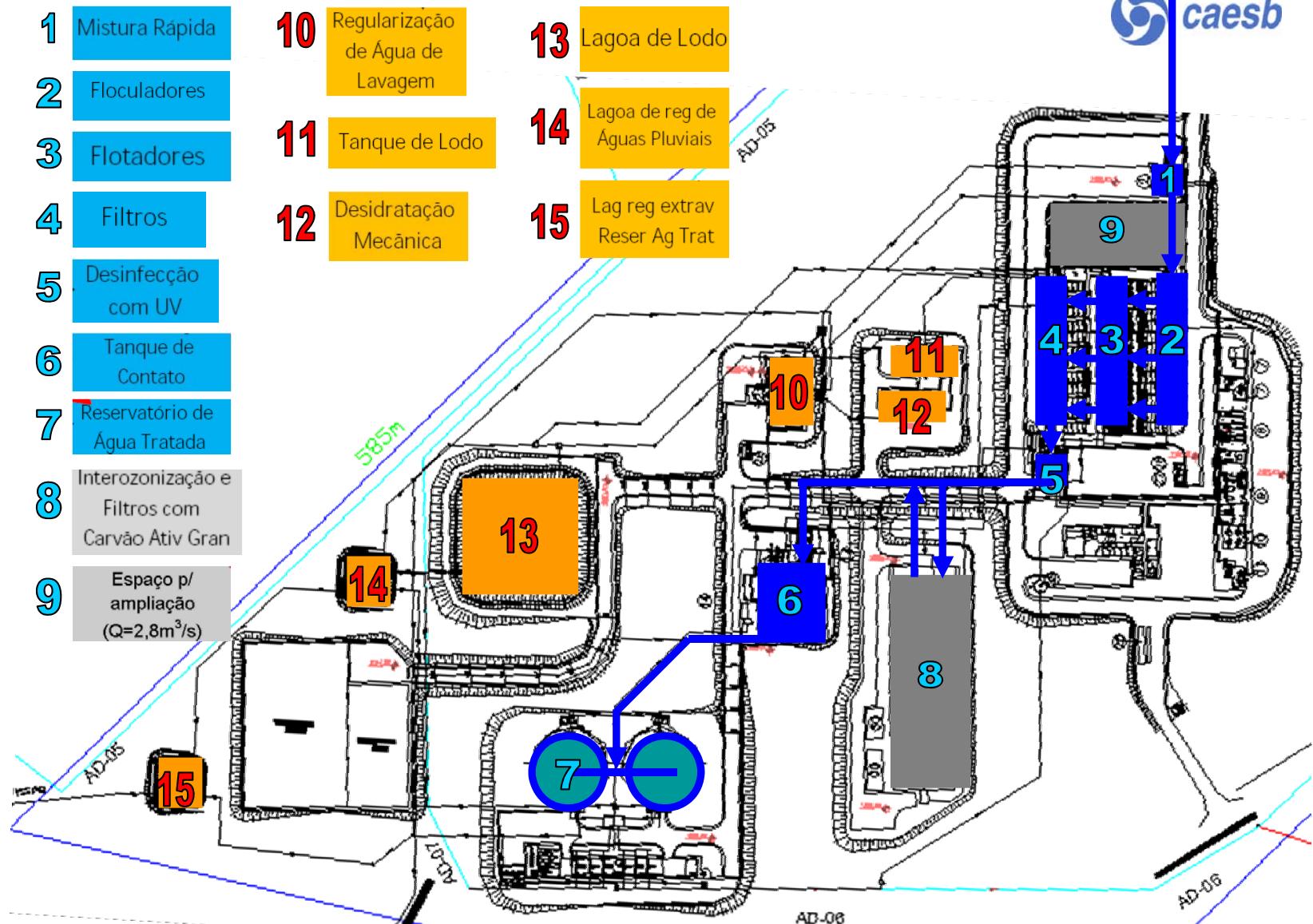
Material: welded steel

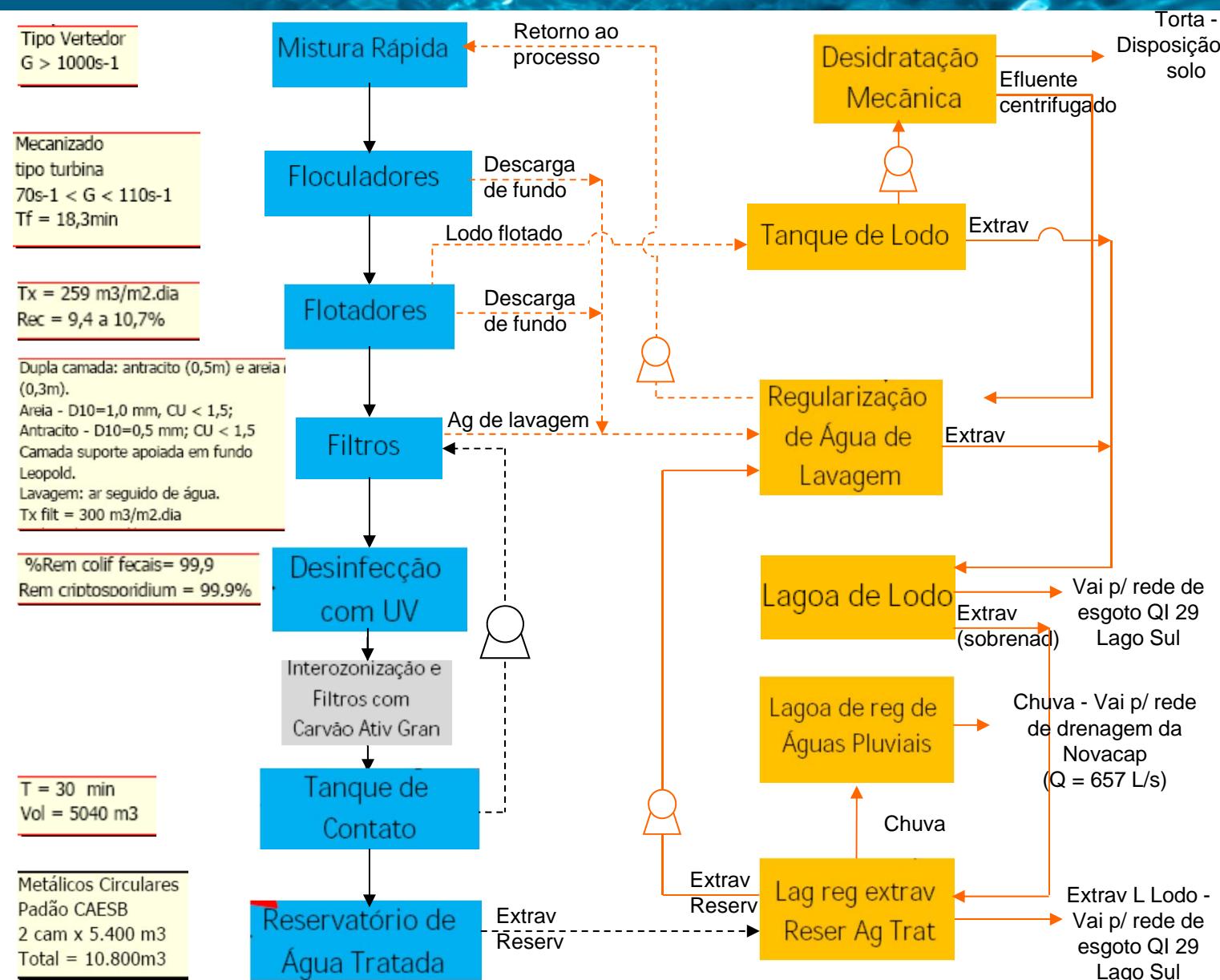
Diameter: 1,3 m.

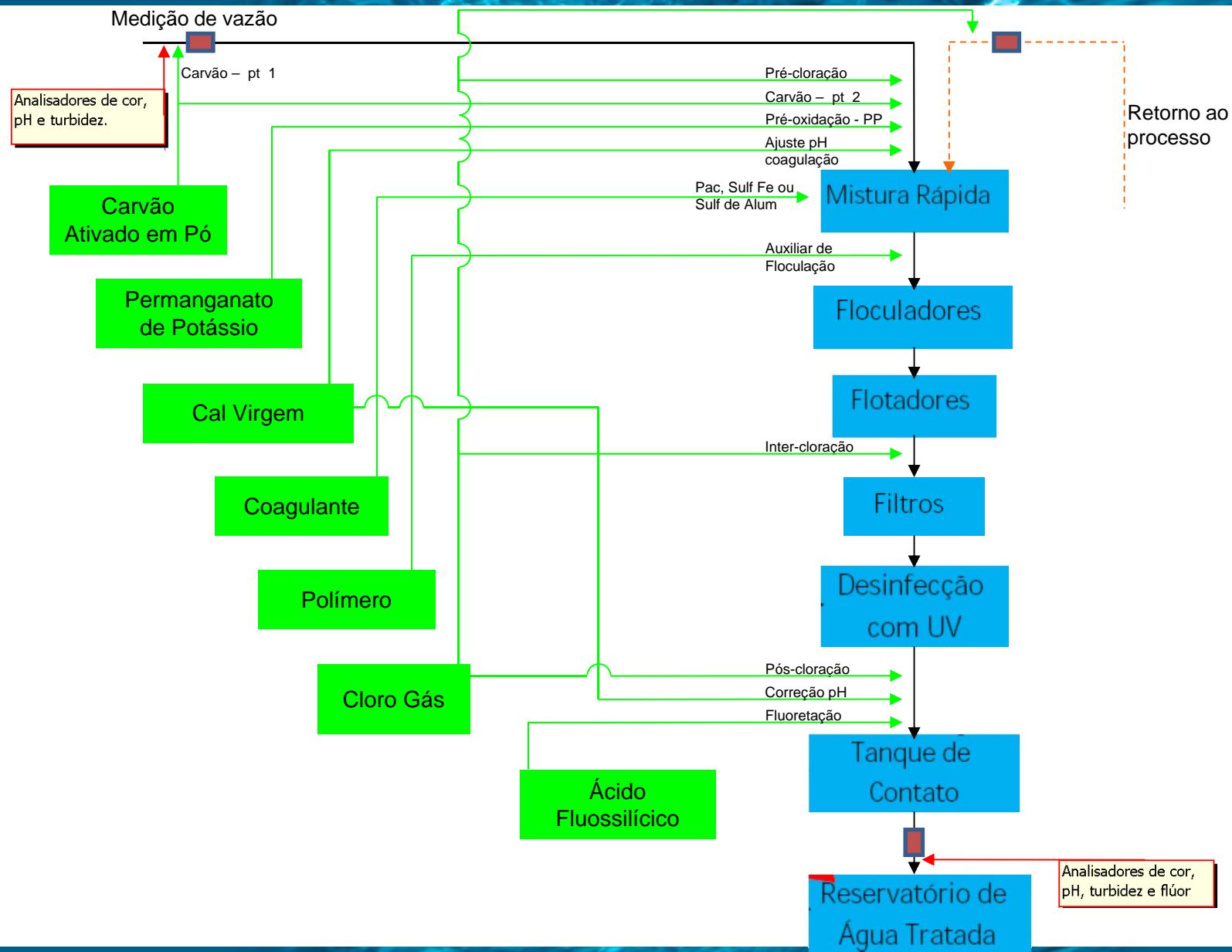


$Q = 2,1 \text{ m}^3/\text{s}$ (1st stage)
 $Q = 2,8 \text{ m}^3/\text{s}$ (2nd stage)



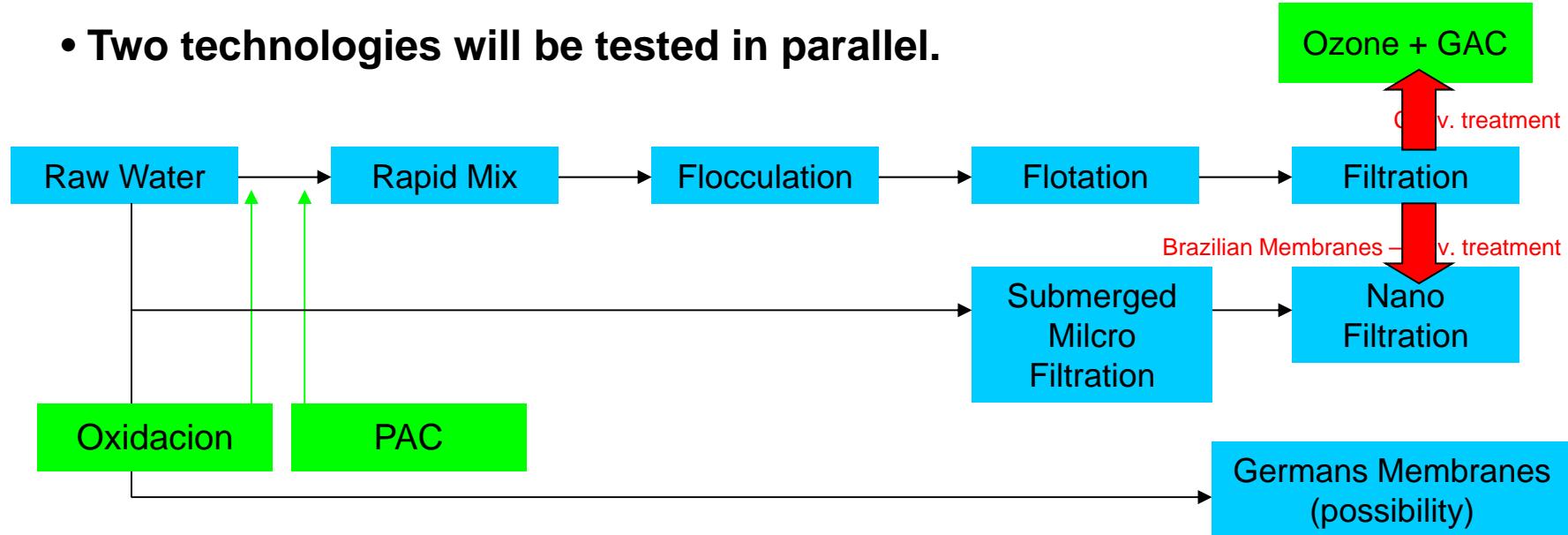






Financial supports provided by Caesb

- Two technologies will be tested in parallel.



Experimental Investigation steps:

- 1 – Operational and design parameters optimization;
- 2 – Use of chemicals to improve the treatment;
- 3 – Investigation of conventional and advanced treatment.

