

Supplementary Materials

Supplementary Table1: Information about four components of micro-nano-bubbles (MNBs).

Component	Product name	Information
MNBs device	MRK MS-1 (Model: Aspirator)	MRK MS-1 device. Steel coating; exhaust velocity of 5 L/min (1 kg/cm ² of water); 72 mm of longitude; caliber of 14 mm ϕ in the superior connection and 9 mm ϕ of external branch diameter.
Water pump	BAP-30	Qmax: 30 L/min; Hmax: 30 m; Suct. Hmax: 8 m; Size: 1" x 1"; 1-Mot; 220 V; Hz: 60 – 3450 min ⁻¹ ; KW: 0.37; HP: 0.5; In: 1.8 A; IP 44; C 10 uF; VL 450 V;
Air compressor	Bonelly Advanced ® (Model: BM 50E)	Voltage: 220 V; Pressure: 8 Bar; Tank: 50 L; Power: 2 HP; Frequency: 60 Hz; Air capacity: 200 L/min.
Electric generator	Honda Power mate 5000 (Model: PM-5022)	Ac Voltage: 120/240 V; Power (rated) 5000 W (surge) 6250 W; Frequency: 60 Hz; Phase: SINGLE; RPM: 3600; Serial: N58600577.

Supplementary Figure 1.

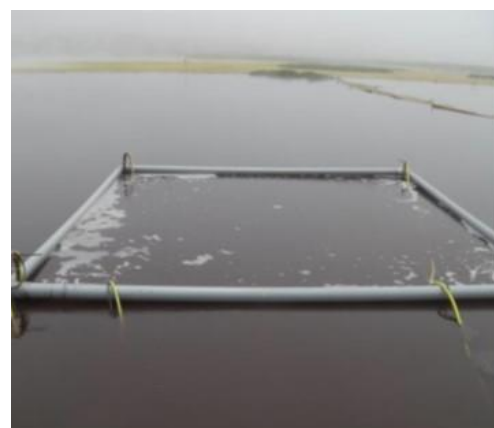
(a)



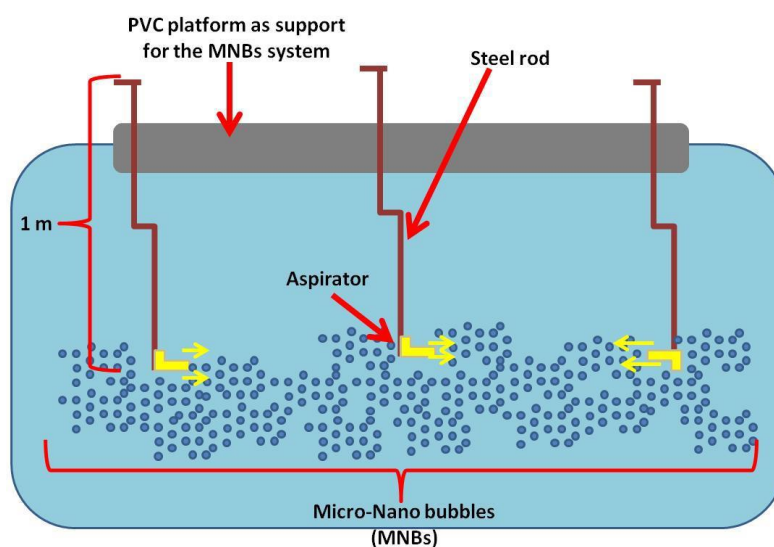
(b)



(c)



(d)



(e)

Supplemental Figure 1. (a) Assembling components of micro-nano-bubbles (MNBs); (b) Testing MNBs before the installation in Cacajo wetlands; (c) Implementation of MNBs in Cascajo wetlands (d) Polyvinyl chloride support as MNBs system; (e) Brief scheme of MNBs in Cascajo wetlands.