

# Constructed Wetland for wastewater treatment of a fish processing factory in Puerto Ayora, Isla Santa Cruz, Galapagos Islands, Ecuador

Employer:  
 develoPPP-Project Galapagos of the DEG-Bank (Deutsche Investitions- und Entwicklungsgesellschaft mbH)  
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PPP-Project Nr. E 2231 of the companies Ingenieurbüro Blumberg, ATB Umwelttechnologien, Caduceus Cia. Ltda. with DEG-Bank Cologne at "Cooperativa de producción pesquera artesanal Galápagos" in Puerto Ayora, Isla Santa Cruz, Ecuador.

Type of constructed wetland: Two-stage vertical subsurface flow (380 m<sup>2</sup>)

Planting: *Musa ssp.*, *Xanthosoma sagittifolium*, *Colocasia esculenta*, *Cyperus ssp.*, *Saccharum officinarum*.

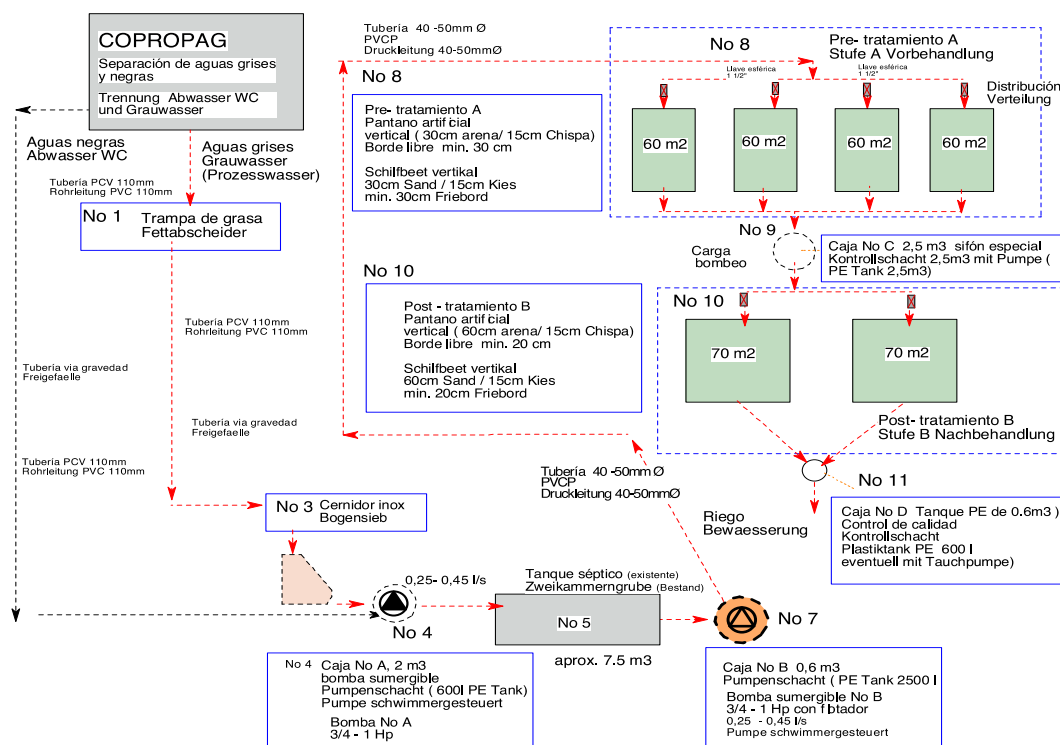
Design volume: 10 m<sup>3</sup> wastewater per day

Start of operation: September 2016

Pretreatment: Fat separator, curved screen (200 µm), septic tank

Esquema de funcionamiento:

Functional scheme:



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Mixed species after planting in September, 2016



Our spray nozzles for wastewater distribution

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Cover of vegetation in December, 2016