



Waste Water Treatment

Project: Revamping waste water plant.
 Addition of a process step Fenton process.
 Micro pollutant oxidation.

Realization: Handover documentation: Sept. 2013

Duration: 2 months for on site installation (total 12 months)

Scope of project:

- Design: red marks on PID's, part list
- Detail Engineering: isometric and platform construction drawings (2D/3D)
- Functional specification of process and control sequences
- Electrical hardware: 82 I/O's
- Automation HW: PLC ET200M, FCs, instrumentation and pilot valves
- Software: PLC, upgrade visualization InTouch
- Pre-fabrication of steel platform
- Erection on site:
 - Tank with agitator
 - 3x Dosing racks (H_2O_2 , $FeCl_2$ and HCl)
 - UV-Reactor
 - 4x centrifugal pumps (10-40 m^3/h)
 - Valves > 80 pieces
 - Instruments: 3x Cond, 3x pH, 6x Flow, 4x Pressure, 1x H_2O_2
- Piping: PP, PVC, 1.4404 (250 m)
- I/O Check, commissioning and start up without break down of production

