

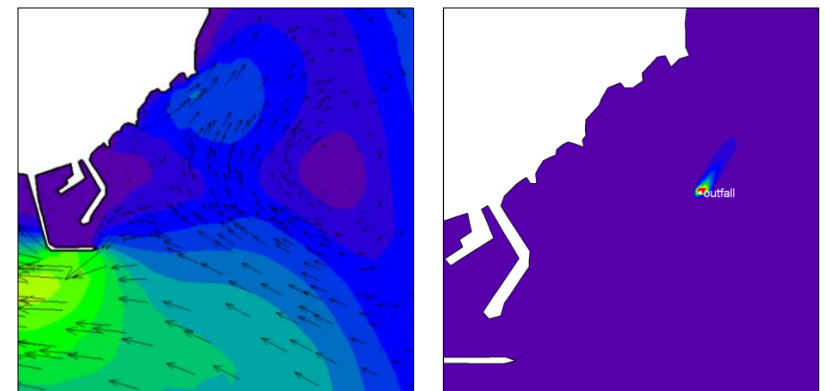
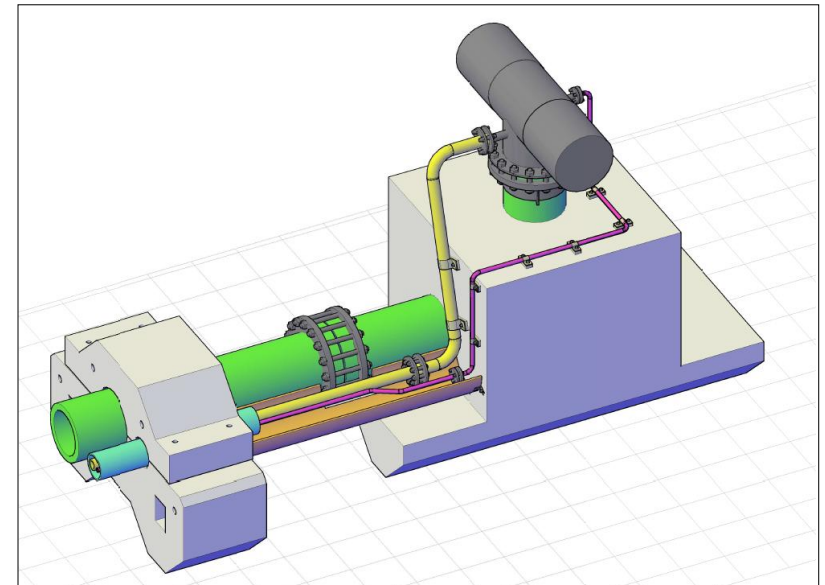
# EPIC of New Desalination Plant and Potable Water Storage Tank at Halul, Qatar

Detailed engineering for seawater system of a reverse osmosis desalination plant ( $Q \approx 313 \text{ m}^3/\text{h}$ )

Year: 2011 - 2013  
Owner: Qatar Petroleum  
Client: Archirodon Construction (Overseas) Co. S.A.

## Service:

- Saline dispersion study, determination of mixing zones and recirculation study
- Preparation of „Pipeline Design Basis“
- Determination of pipeline routing (offshore)
- Dimensioning of pipelines' wall thickness (offshore)
- Analysis of the offshore pipelines' on bottom stability
- Design of required concrete ballast blocks to assure the offshore pipelines' on bottom stability
- Hydraulic steady state and transient analysis of the seawater system (water hammer analysis)



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Detailed engineering for seawater system of a reverse osmosis desalination plant ( $Q \approx 313 \text{ m}^3/\text{h}$ )

## Service:

- Numerical analysis of pipeline installation (launching, towing, sinking)
- Process dependant hydraulic design of the siphon pit
- Detailed design of offshore intake and discharge structures
- Specification for pipeline installation and tie-in
- Specification for passive intake screen

