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# BATA'S SUBMARINE OUTFALL

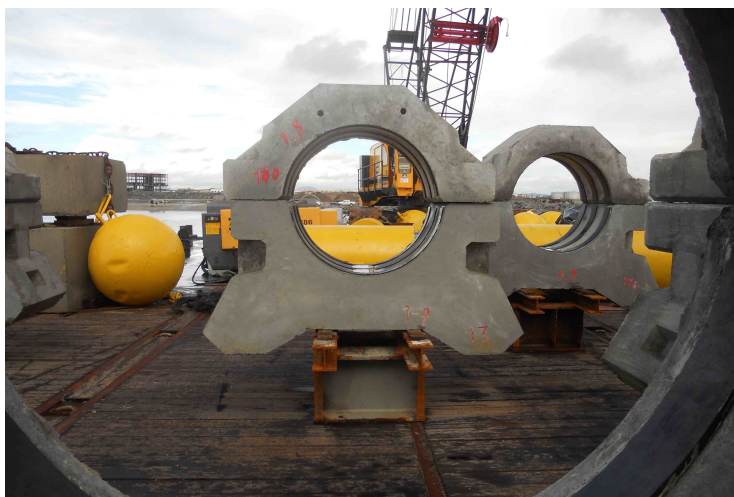
1.280 m length, Ø 1.100mm



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## Bata's Submarine Outfall – Equatorial Guinea

CONSTRUCTION TIME

12 MONTHS

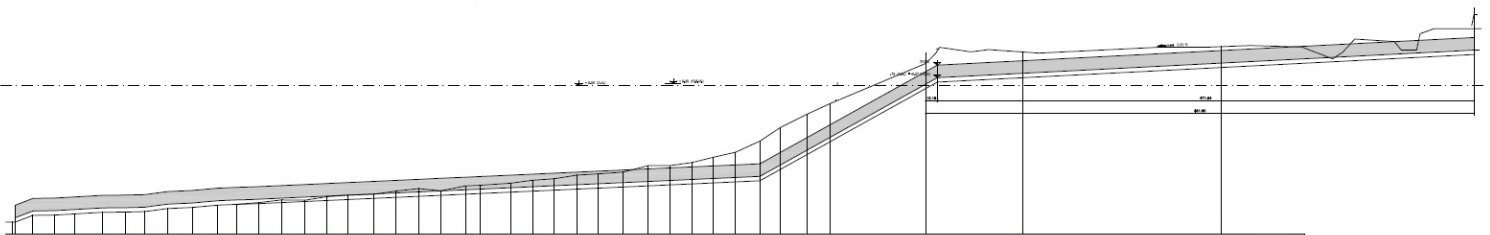
### DESCRIPTION

The outfall is included on the project of water supply and sanitation of Bata and included the following works:

- Project design and supervision;
- Trench dredging for outfall installation;
- Construction of two sheet piling curtains with 2 x 200 m of length;
- Production, assembling and installation of ballasting rings, stabilizers and diffuser protection blocs in reinforced concrete.
- Assembling by thermic welding of the PEHD pipe;
- Installation of the pipe at sea;
- Installation of the diffuser;
- Trench covering;
- Supply and installation of signalization buoy;
- Final tests to the outfall.

Outfall main characteristics:

Length..... 1.280m  
Internal diameter..... 1.000 mm  
External diameter..... 1.100 mm  
Diffusers .....8 duckbill valves  
Pipe .....HDPE, PE100, SDR 22, PN 7.7



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