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BUTARQUE STORM WATER TANK



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The Butarque Storm Water Tank was finalized at the end of 2010.

It was built by **aqualia infraestructuras** and it is considered one of the **biggest** infrastructures of this type **in Europe**.

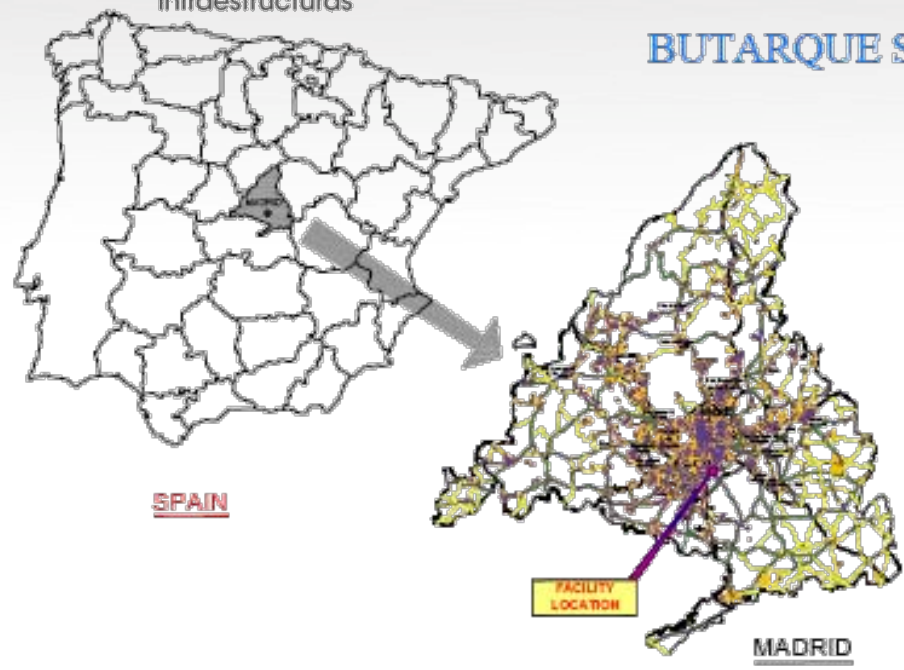


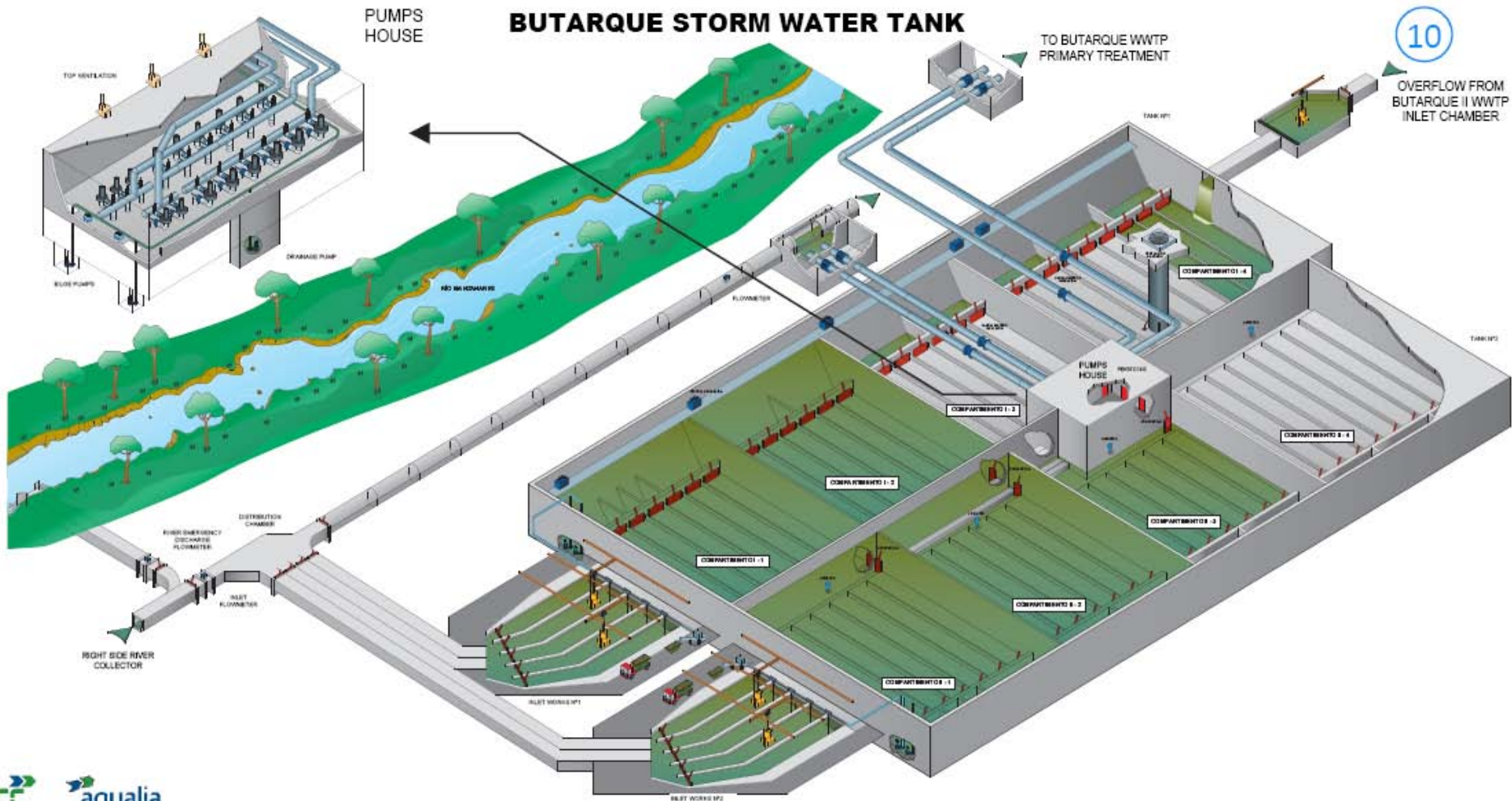
Photo taken during the visit of Alberto Ruiz Gallardon, **Mayor of Madrid**, in November 2010.

- Storage capacity: up to **400.000 m³**
- Inlet flow: up to **80 m³/s**
- Total investment: **90 million EURO**
- Earth movement: **2,5 million m³** of earth excavated
- Used concrete: **90.000 m³**

BUTARQUE STORM WATER TANK

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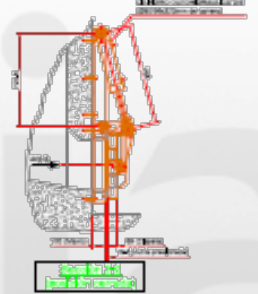
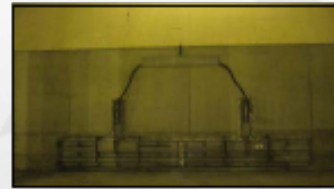
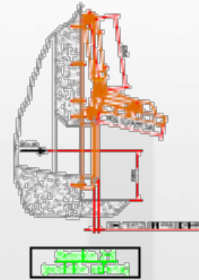
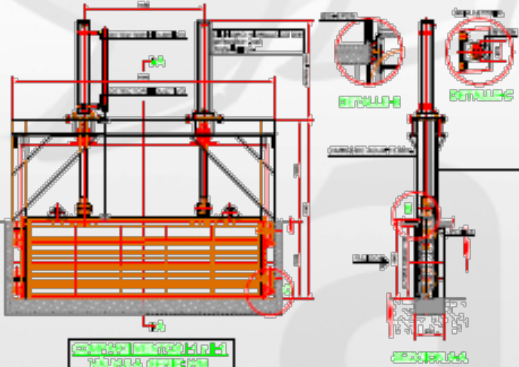
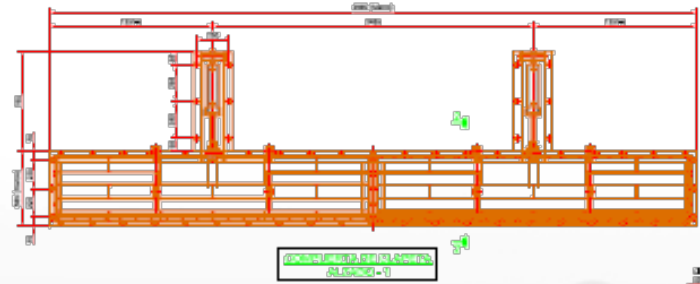
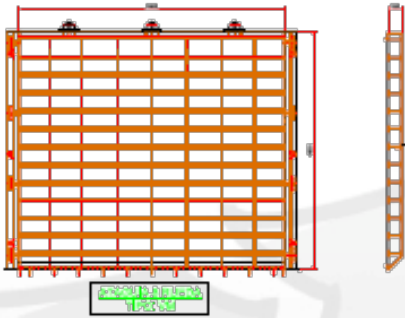
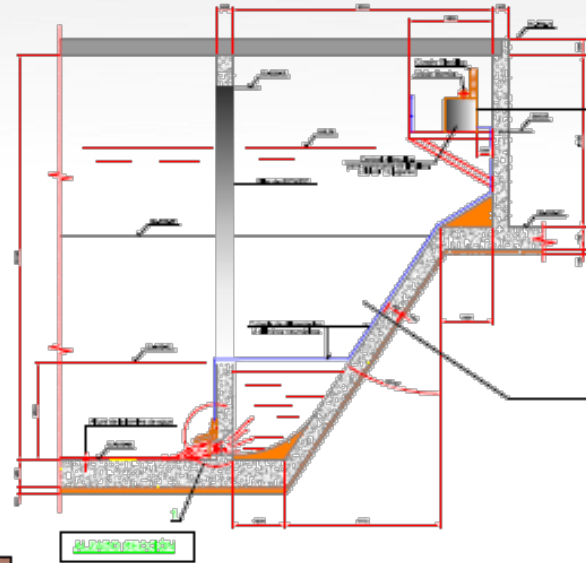
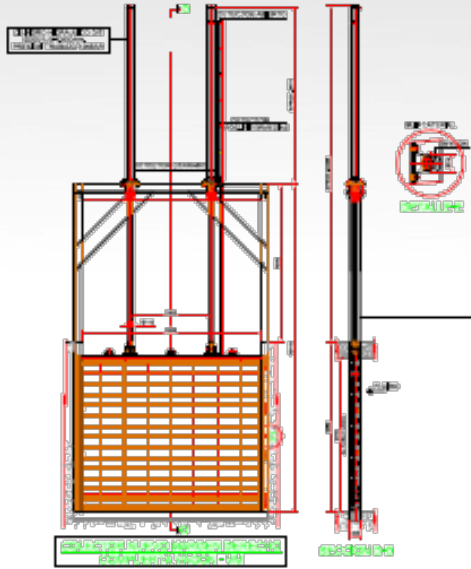
- Inlet works: 2 units

- 10 Hydraulic actuated penstocks: 5 in each inlet work area
- 4 Clamshell buckets to remove gross debris before the screens (5 in each inlet work area)
- 10 Automatic screens: 5 in each inlet work area. 8m wide, 4m high and 50mm opening
- 30 pipes Ø1000mm for filling of the tank from the inlet works

- **The tank: 2 bodies 200.000 m³ each**
 - 55 flap hydraulic actuated gates for the automatic cleaning of the tank: 4,8 m wide and 0,4 m high for the two bodies of the tank
 - 2 flap hydraulic actuated gates for the automatic cleaning of the tank: 1 m wide and 0,4 m high for the two bodies of the tank

PENSTOCKS. Storm Water Tank Cleaning System

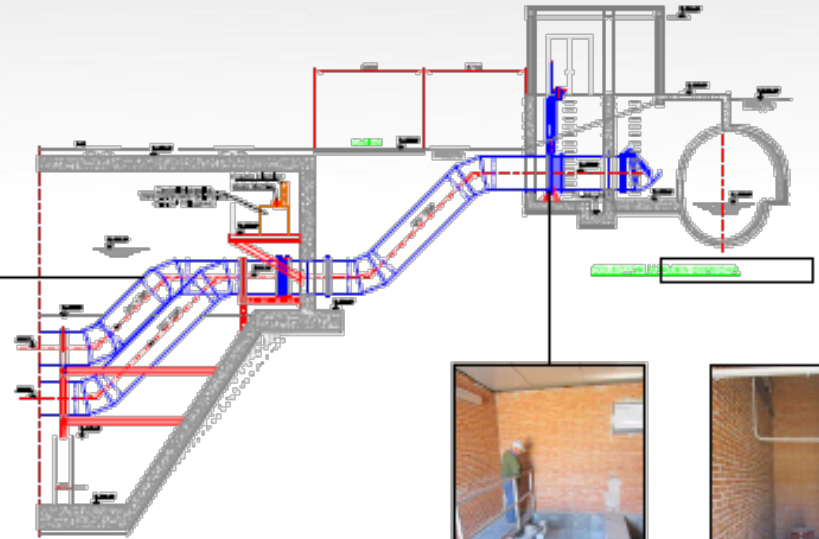
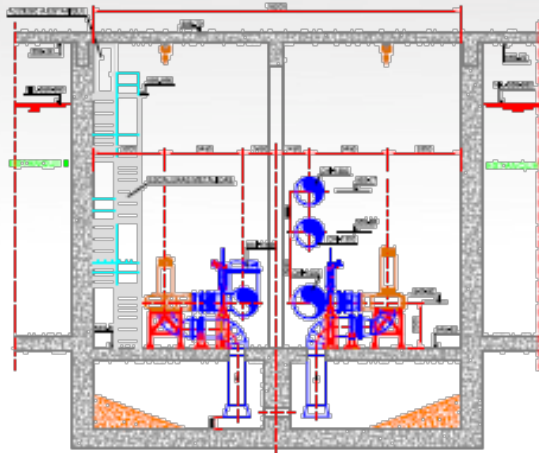
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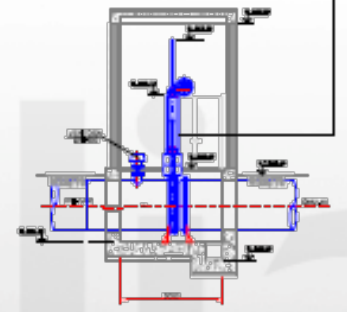
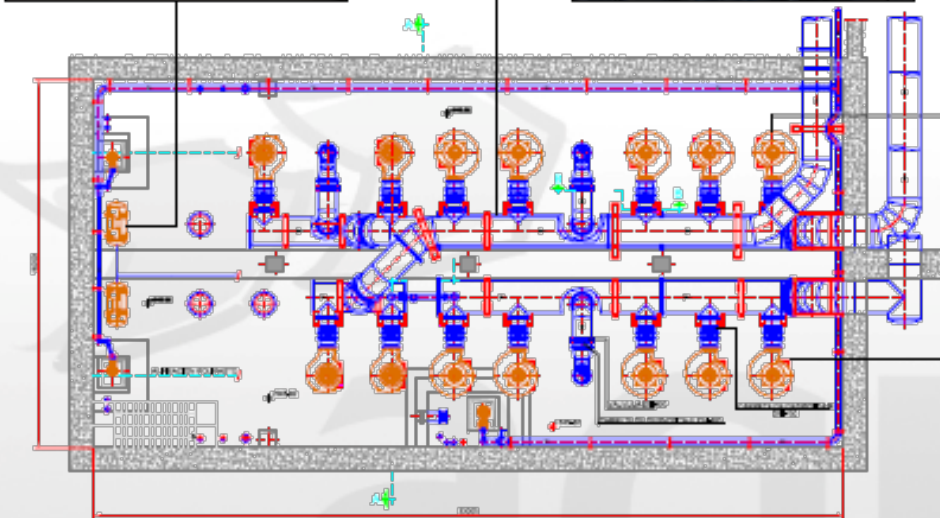
- The Pumps House

- 12 (10 + 2R) submersible dry installed pumps .
Unitary flow: 1050 l/s at 22 m.w.c. Water pumped to Butarque WWTP new primary treatment through 2 collectors Ø1400 mm.
- 5 (4 + 1R) submersible dry installed pumps.
Unitary flow: 1083 l/s at 12 m.w.c. Water pumped to the main collector through 2 collectors Ø1200 mm
- 3 drainage pumps

PUMPS HOUSE



SECTION THROUGH PUMP HOUSE



SECTION THROUGH PUMP HOUSE

PUMPS HOUSE - RIGHT RIVER BANK CONNECTIONS

- The Transformers Building

- 6 extraction fans. Unitary flow 100.000 m³/h, 75Kw.
- 2 transformers 45KV/420V, 3500 KVA's each.
- 1 emergency generator 250 mVA (200 mW)





THANK YOU

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