

Supervision of Dredging in Canales de Martin Garcia (Argentina)



Financed by: CARP (Argentina and Uruguay)

Client: CARP

Date: 1996-1998

Budget: € 525 000

Location: Argentina, Canales Martin Garcia

Partners: EIH, Ceopyd and Coopers & Lybrand

Assignment:

The CARP (Commission Administradora del Rio de la Plata) have appointed concession to the Contractors Consortium RIOVIA to dredge and maintain the Canal Martin Garcia. The Consortium SEC (Soresma-haecon, EIH, CEOPYD, Coopers & Lybrand) is in charge of the monitoring and supervision of the dredging works and the installation of aids for navigation.

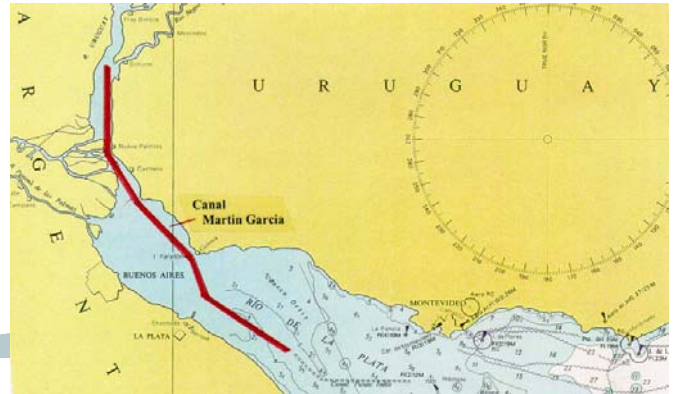
Scope of Services:

- Capital and maintenance dredging
- Environmental impact of dredging and dumping
- Quality control of dredging works

Technical Description:

The CARP - which is a joint administration by Argentina and Uruguay managing the waterworks in the Rio de la Plata - have delivered a concession for 5 years to a consortium of dredging companies to excavate (capital dredging 2 years) and maintain (maintenance dredging 3 years) a new channel along the existing alignment of the Canal Martin Garcia. This Canal Martin Garcia is making the link between the outer estuary of the Rio de la Plata and the Rio Uruguay.

The channel has to be deepened to C.D. -9.75 over a total length of more than 100 km. The soil in place was dredged by means of a 10,000 kW Cutter Suction Dredger (CSD "Amazone") and two Trailing Suction Hopper Dredgers (TSHD "Ham 311" : hopper volume 3,500 m³ and TSHD "Flevo" : hopper volume 2,130 m³).



Overview map of the Rio de la Plata Estuary

Dumping of the dredged material (stiff clay, sand and silt) is done by side-casting along the canal (cross)section at a distance varying from 1,000 m to 2,000 m from the Canal axis. The total capital dredging involves 30 Mm³ (mainly loam and silt) for a total cost of 100 M USD. The maintenance dredging was estimated on 3 Mm³/year. The total project budget was given in concession to the Consortium RIOVIA (7 dredging companies) for a total sum of 180 M USD.

The Consortium SEC (Soresma-haecon, EIH, CEOPYD, Coopers & Lybrand) was awarded the contract for the supervision and control of the dredging works, the dumping works and the environmental impact monitoring. Moreover, the water team was in charge of supervising the new installation for buoyage and aids to navigation.



Picture CSD "Amazone" at work in the Rio de la Plata



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0016_PIF - Page 1 of 1