



Transport of muddy water (POME) with a high content of organic load.

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La Gloria
Colombia | 2020
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Working Conditions:

Temperature: 80°C
Flow: 36m³/h

Pexgol Pipe:

Pexgol 110 mm (4"), clase 12

Application:

Muddy water transportation

Length:

1200 m

The Challenge

La Gloria, a company dedicated to the extraction of palm oil in César (Colombia), required a new line to transport muddy water to the oxidation ponds. From the florentino lagoon (treatment pool), passing through the main road and the plantation, the excavation and installation of the pipe had to be carried out in the crop, between palms without causing damage to the plants and the irrigation pipe. In addition, given the operating conditions and the type of fluid, a pipe was required that resists high temperatures and has a low internal roughness index due to incrustations.

Pexgol Solution

Due to the high costs of carbon steel pipe, added to the cost of assembly, it was decided to use Pexgol pipes. Pexgol was selected for its quick and easy installation, fewer joints and the possibility of supplying it in rolls. The installation of the 1200 meters was carried out in 4 hours. Four electrofusion joints were used for the splicing of the sections and a mechanical joint was used at each end.



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Advantages

- **High resistance to wear:**
Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.
- **Excellent chemical and corrosion resistance:**
Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.
- **High temperature resistance:**
Working temperatures can range from -50°C/-58°F up to 110°C/230°F.
- **Superb internal and external corrosion resistance:**
Our pipes are proven to withstand decades of exposure to corrosive environments, with nonstop performance in some of the world's harshest environments.
- **Long pipe sections:**
Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.
- **Creep and impact resistance:**
Crosslinked Pexgol pipes can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Furthermore, Pexgol pipes are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

