

MPPE for Vermilion (Total) Harlingen Gas Produced Water treatment



Column size (m): $d = 0.8$, $h = 2.0$

MPPE for removal of:

- Dispersed oil (aliphatics)
- Dissolved and dispersed aromatics (BTEX, PAHs)

Since June 1994

- Produced water from offshore gas
- Condensed water from glycol regeneration unit
- Dissolved and dispersed aromatics (BTEX):
1,500 – 2,500 ppm \rightarrow < 0.5 ppm
- Dispersed oil (dispersed aliphatics):
160-350 \rightarrow 0.5 ppm
- Flow 4 m³/hr

Since June 1997

- Produced water from offshore gas
- Condensed water from glycol regeneration unit
- Rainwater/ run off water
- Groundwater
- 6 m³/hr