

Case Study

Customer: Transnet New Multi-Product Pipeline

Requirement: Effluent and Oily Water Treatment

Year: **Pump Stations** 2010-2012, **Inland Terminal** 2011-2014, **Coastal Terminal** 2012-2014

Discharge Source: Various: Municipal Sewer, Sewage Treatment plant, Environment and Wetland



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The NMPP project consists of three 16 inch **inland pipelines**, a 24 inch trunk line from **Durban to Nigel** and accumulation facilities in Kwa-Zulu Natal and **Gauteng**, and is designed to safely transport **petroleum** products from the coast to the inland market of South Africa in an environmentally-friendly manner.

In the process of pumping, fuel spillages, no matter how small, do occur. The spillages are contained and washed to central spill basins for containment and treatment.

Pictures of Oil Separator on site



Spill Recovery System and 20m³/h Engineered Oily Water Separator solution at Pump station

Solution

The 3 **Pump Stations** are each equipped with 2 systems:

- A system to remove gross (free floating) hydrocarbons before entering spill basin
- An Oily Water system to treat remaining free floating, emulsified and dissolved hydrocarbons, handling **20m³/hr.**

Performance tests after commissioning proved that the discharge limit of **2.5 ppm** hydrocarbons in water was achieved.

The **Inland Terminal** is equipped with 3 systems:

- A system to remove gross oil
- An Oily Water system handling **60m³/hr.**
- Storm Water system handling **160m³/hr.**

The **Coastal Terminal** is equipped with 2 systems:

- A system to remove gross oil
- An Oily Water system handling **40m³/hr.**

Installation, commissioning and performance tests are in progress.

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We provide Oily Water Separators, Floating Skimmers, Bioremediation and Fuel Filling Overspill Protection.

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