



Document Title:

Slops Water Treatment

1.0 LOCATION

Nigg Oil Terminal (NOT) is located approximately 1.5km South West of the village of Nigg, 15km South of Tain and 56km North East of Inverness. The site is centred at NGR NH 79187 70435.

The site is bound to the North by Nigg Bay, to the East by the minor B9175 road, to the South by Nigg Energy Park and to the West by the Cromarty Firth.

Nigg Oil Terminal is situated within a sheltered port.

The approaches, anchorages, and berth are shown on Admiralty chart UK1889.

2.0 SLOPS WATER TREATMENT PROCESS

NOT is a Pollution Prevention & Control (PPC) Permitted site (PPC/A/1012611) regulated by Scottish Environmental Protection Agency (SEPA) and operated by Wood Group PSN.

Slops waters can be accepted by marine tanker at the jetty or via the road tanker reception facility.

Storage and initial oil / water separation (pre-treatment) takes place in the Ballast Tanks.

Details of Ballast tanks are as follows:

Capacity: 31,800m³ each
Size: 68m dia. x 12m high

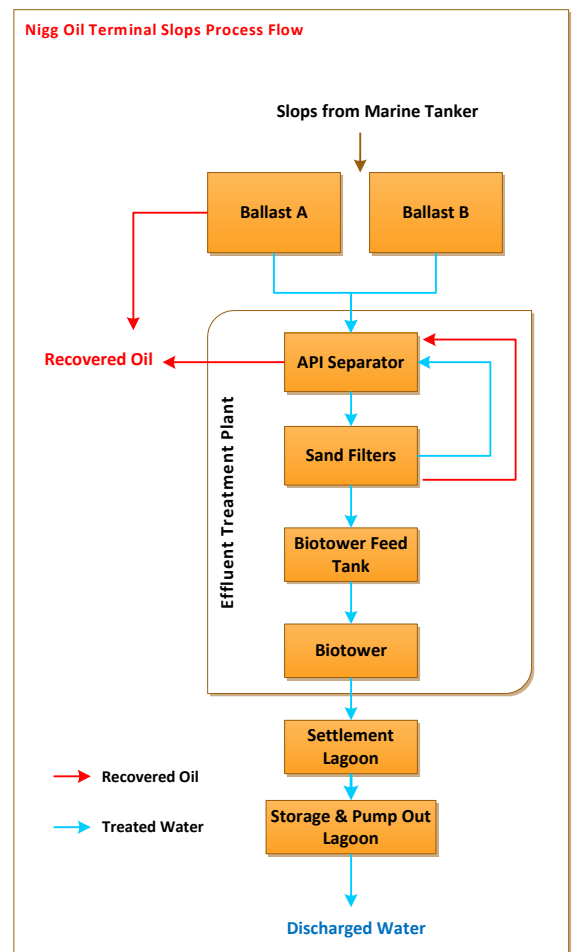
Ballast Tank A is available to accept slops waters and is certified for use to 2022. A copy of the previous inspection report is available upon request.

Currently Ballast Tank B is out of service for thorough cleaning and inspection.

From the Ballast Tanks separated produced water is gravity fed to the API Separator for primary treatment. Secondary treatment of the effluent is carried out by filtration through sand filters. The filtered effluent then passes to the bio-towers, via the bio-filter feed tank, for tertiary biological treatment. A further stage of tertiary treatment is carried out when the effluent is discharged to a settlement lagoon and finally to the storage lagoon.

Discharge of treated water is then to Cromarty Firth in compliance with a number of conditions on water quality and timings set out in the NOT PPC Permit. Hydrocarbons are recovered at each stage of the process and are ultimately exported as product with crude oil stored in NOT Crude Oil Storage Tanks (COST).

Slops can be processed on a 24 hour basis and throughput of the effluent treatment plant is up to 100m³ per hour.



Fees payable for slops handling are extremely competitive – please [contact](#) us on in order to discuss your requirements.

3.0 SLOPS WATER SPECIFICATION

The standard specification for slops acceptance at Nigg Oil Terminal is:

- H₂S (hydrogen sulphide) maximum 10 ppm
- SRB (Sulphur Reducing Bacteria) maximum 100 counts per ml by volume
- Methanol, Glycol and/or residual Biocide maximum 200 ppm by volume
- Solids maximum 0.1 pct by weight.

Meeting this criteria will guarantee acceptance, subject to tank and jetty capacity. Should you have any trouble in meeting one or more of these criteria please [contact](#) us to discuss your requirements as we are keen to investigate solutions which enable us to process non-standard slops parcels.

Slops containing any drilling related materials, including but not limited to, drilling muds cannot currently be accepted at Nigg Oil Terminal.

Tank washings can be treated via the Nigg Oil Terminal effluent treatment process. We would require confirmation of any chemical within the washings and information on the previous three cargoes within the tank(s).