LWANDLE TECHNOLOGIES MARINE ENVIRONMENTAL SERVICES

Capability Statement

Marine Ecology Impact Assessment

Client: Council for Scientific and Industrial Research

CSIR
our future through science

REQUIREMENTS

- Assessment of potential effects of dredging on the marine environment due to the expansion of the Port of Ngqura
- Marine ecology risk assessment for accidental oil spillages in Algoa Bay
- A comparison of alternatives for the port's Dredge Spoil Disposal Site
- Marine ecology assessment of the proposed Manganese terminal

WORK DONE

- All assessments were desktop studies where relevant material and information pertaining to dredging, oil spillages and dredge spoil disposal was used.
- Compilation of literature review of the oceanography and marine ecology of the Algoa Bay region.
- Impact assessment of all potential effects of dredging, oil spillages and dredge spoil disposal on the marine environment within the Algoa Bay region.
- Site specific receptors assessed included:
    - Turbidity and water quality,
    - Sediment properties,
    - Benthos,
    - Sub-tidal benthic macrofauna,
    - Island intertidal flora and fauna,
    - Port water body,
    - Coastal seabirds,
    - Aquaculture and fisheries

OUTCOMES:

Lwandle provided detailed reports with in-depth information about the potential effect of dredging, oil spillages and dredge spoil disposal on the marine environment of the Algoa Bay region.

These were submitted to CSIR, who, with the guidance of Transnet compiled the full Environmental Impact Assessment for the ongoing construction and development within the Port of Ngqura.

"Assessment of potential effects of dredging on the marine environment due to the expansion of the Port of Ngqura"

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