



DUNE MANAGEMENT: TABLE VIEW

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MOTIVATION FOR PROJECT

The Table View beachfront extends from the Dolphin Beach Hotel in the south to Bokkom Bay in the north.

This 3.6 km stretch of coastline is not only a popular recreational area and a prime tourist attraction offering iconic views of Table Mountain, but also a favourite kitesurfing spot for local and international visitors during the windy summer months.

Natural coastal processes lead to sand being deposited on the beach and the beach thickening during the summer months.

This process still remains, but the sand can no longer move and is therefore trapped within the narrow dune belt that now needs to be managed.

The dunes had become unstable with tall, sparsely vegetated sand patches leading to an increase of wind-blown sand on surrounding infrastructure.

These remaining dune systems are important to protect surrounding infrastructure and buffer the coastline against storm surge events and sea level rise.

Coastal Management has taken the opportunity to include the Table View dune system in its dune management plan, along with, Fish Hoek Kommetjie, Hout Bay and Gordon's Bay.

TABLE VIEW DUNE PROJECT

- Reprofile and vegetate the dunes to mitigate accumulation of windblown sand on adjacent infrastructure, including stabilisation and rehabilitation of the dune cordon.
- Install irrigation to encourage vegetation establishment.
- Install dune nets to facilitate the stabilisation, trapping and placement of windblown sand within the dune area.
- Restore coastal infrastructure - beach access, pathways and fencing.
- Increase biodiversity and abundance of localised dune vegetation.
- The project consists of 12 "Management Units".
- Project fully implemented by end of June 2023 and is now in a maintenance phase.



OPERATIONS

- During reprofiling of the dune system, organic material and other waste items that were uncovered from the earthworks, were collected daily and removed off site.
- A beach cleaning protocol was implemented to remove organic wash up from the beach.
- Ad hoc large scale clean-ups were undertaken and when required.
- 3 Pump Houses were installed to ensure Irrigation systems would function optimally and guarantee the establishment and long-term sustainability of the dune vegetation.

INFORMATION SHARING

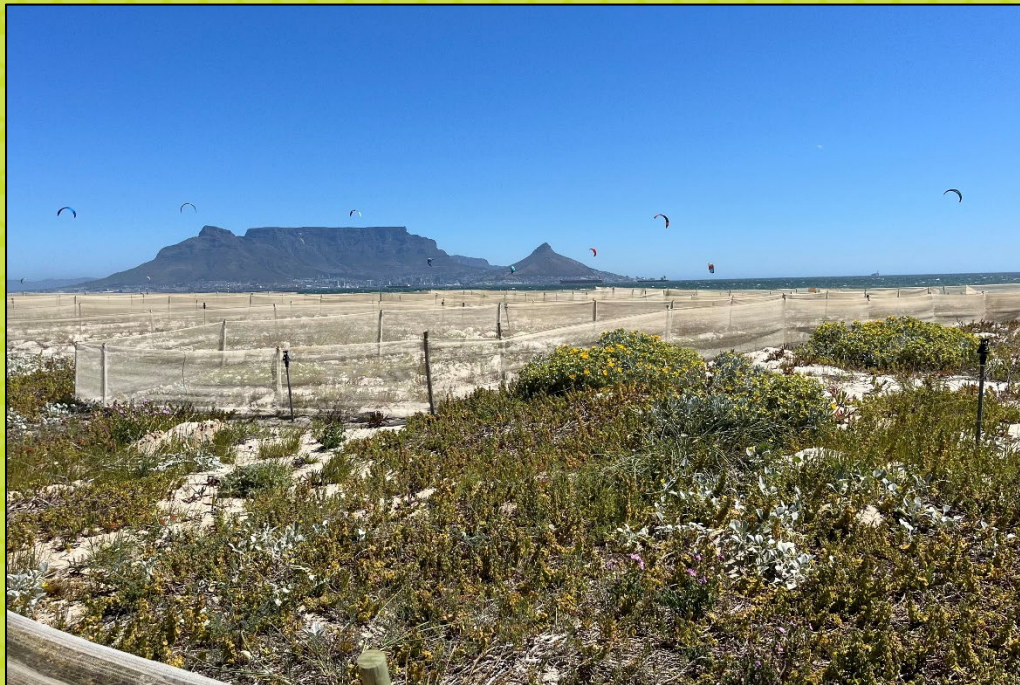
- The works have been undertaken by the City's Maintenance Management Plan (MMP) as authorised by the Provincial Environmental Authorities.
- Public meetings were held with interested and affected parties.
- Invites sent to Ratepayer Association, Ward Councillor, Sub council Manager and directly adjacent facilities and residences impacted by works
- Press release issued prior to commencement of earthworks, including the start dates and duration of proposed works.

INTERESTING FACTS

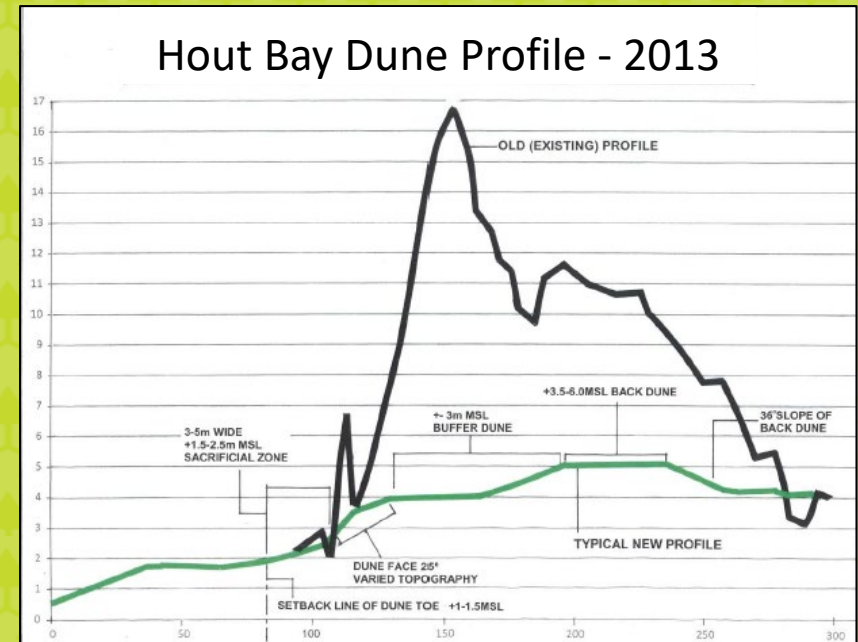
- 5.5 ha of dune was rehabilitated.
- 70 000 m3 of sand was moved.
- 61 000 m3 of sand was returned to the ocean for circulation within the system.
- Approximately 56 689 plants were rescued from the dune system and reused.
- Approximately 114 363 plants were planted within the dune system.
- Approximately 9000m of wind nets were installed to manage wind-blown sand.
- Plant species diversity and abundance increased due to variety planting of dune species.



SUCCESS TO DATE..



BASE MODEL - HOUT BAY BEACH BEFORE SAND MANAGEMENT..



HOUT BAY BEACH AFTER SAND MANAGEMENT..

