
SBWQFT
Saldanha Bay Water
Quality Forum Trust
SBWQFT CHAIRMAN'S REPORT
FEBRUARY 2020
www.sbwqft.org.za

SALDANHA BAY WATER QUALITY FORUM TRUST

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Saldanha Bay Water Quality Forum Trust

# VISION

The Saldanha Bay Catchment Area is a sustainable ecological system where the SBWQFT, industry, government and the community work together as a team.

# MISSION

To promote water quality and ecological system health through:

- Scientific monitoring, planning, evaluating and reporting
- Equitable sharing of cost
- Informing and the provision of related advice to influence decision making
- Communication with interested and affected parties
- Sound administrative and financial management

In order to meet legal, environmental and social responsibilities.

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# VALUES

- Accountability
- Openness And Transparency
- Integrity, Honesty, Fairness And Trust
- Cooperation, Synergy And Inclusivity

# PRINCIPLES

- Scientific Approach – monitor, evaluate and report
- User Pays (sharing monitoring cost)
- Stakeholder Representation (relevant entities/bodies/organisations)
- Public Participation
- Legal Compliance
- Financial Viability

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# ORGANISATIONAL STRUCTURE

SBWQFT
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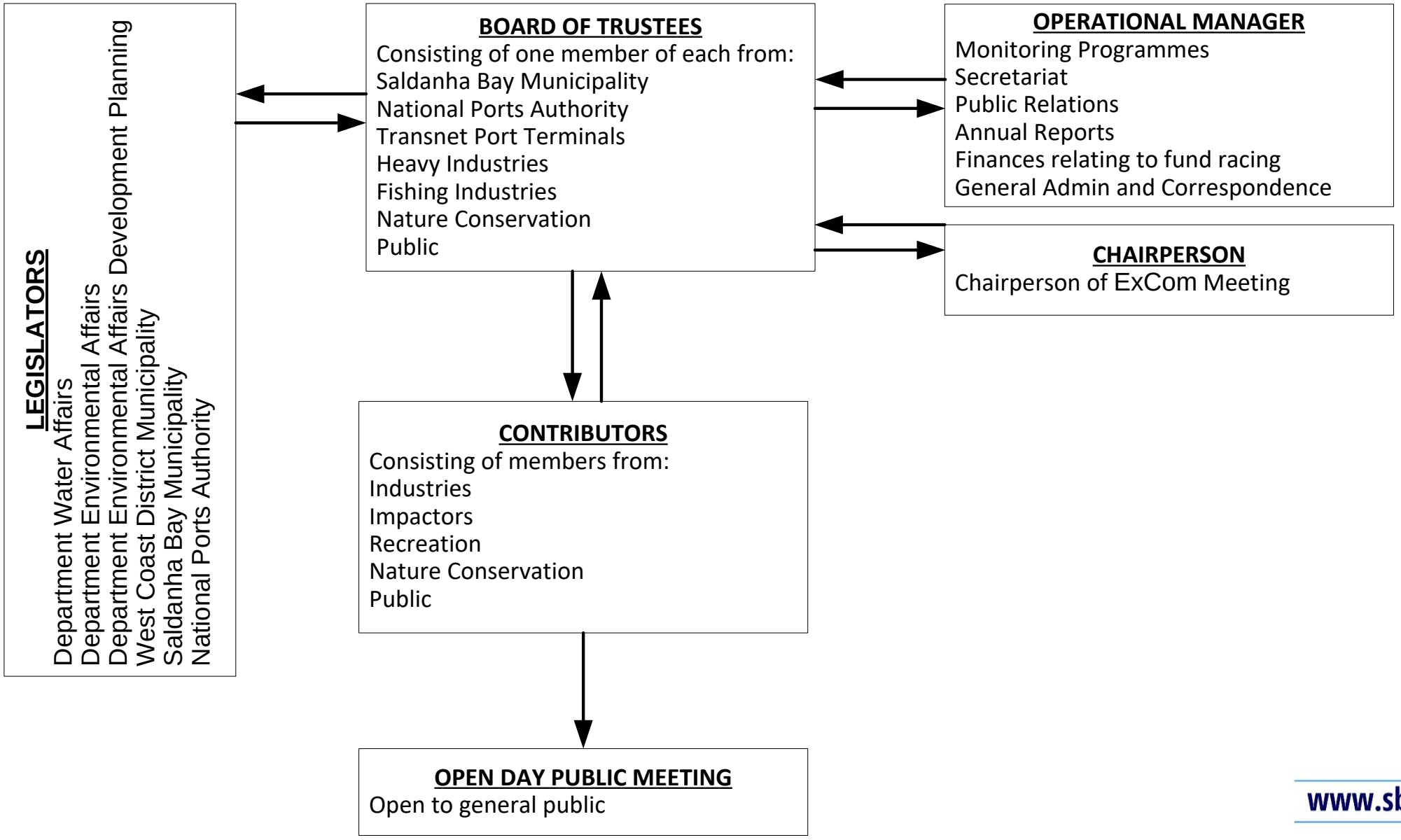

# GOALS



**GOAL 1: To monitor marine water quality and eco system health**

***Concept:*** *To identify and verify all the relevant and required marine ecosystem monitoring parameters, to determine monitoring frequency of the various parameters, establish a Long Term (10-year) Monitoring programme schedule, ensure monitoring program implementation, including data collecting, data processing and reporting by external service provider through a process of outsourcing.*

**GOAL 2: To share costs of monitoring programmes**

***Concept:*** *To identify all the contributors, categorise and approach them and ensure that they honour their commitments*.

**GOAL 3: To inform all relevant authorities & stakeholders of the monitoring results and provide advice where applicable**

***Concept:*** *Disseminate results for short term and long term monitoring - Monthly Report, Quarterly Report, Annual Open Day & EIA Responsibility*

**GOAL 4: To communicate the monitoring activities/findings to industry, Government and the community**

***Concept:*** *The how of communication internally and externally (Website & Education)*

**GOAL 5: To ensure sound administrative and financial management**

***Concept:*** *Bookkeeping(Service Provider); Financial Management(Trustees) & Admin(Secretariat) (Operational Manager's role)*

# SALDANHA BAY WATER QUALITY FORUM TRUST: 10-Year Proposed Monitoring Plan (2017-2026)

| | | Type Of Data | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1. GENERAL** | | | | | | | | | | | | |
| Currents & Waves & Circulation Patterns | Big Bay – East Buoy | Quantitative | Annually / Continuous | Annually / Continuous | Annually / Continuous | Annually / Continuous | Annually / Continuous | Annually / Continuous | Annually / Continuous | Annually / Continuous | Annually / Continuous | Annually / Continuous |
| Groundwater Inflows | Various (Harbour to Geelbek) | Quantitative | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| **2. WATER QUALITY** | | | | | | | | | | | | |
| Water Temperatures | (SB – North Buoy, BB) - hourly at 1m and 10m depth | Quantitative | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous |
| Salinity | Several locations in SB, BB and LL - hourly at 1m and 10m depth | Quantitative | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous |
| Dissolved Oxygen | Several locations in SB, BB and LL - hourly at 1m and 10m depth | Quantitative | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous |
| Chlorophyll | SB (North Buoy) | Quantitative | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous |
| Nitrate | SB (North Buoy) | Quantitative | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous |
| Turbidity | SB (North Buoy) | Quantitative | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous | Monthly / Continuous |
| **3. BIOMONITORING FOR TRACE METALS** | | | | | | | | | | | | |
| Heavy Metal Contaminants (Pb, Cu, Zn, As, Cd) | (SBWQFT Initiative – Current 5 samples in SB) N=10 | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| **4. MICROBIOLOGICAL MONITORING** | | | | | | | | | | | | |
| E.coli, F.coli, Entero-cocci | 20 samples every two weeks | Quantitative | Bi-weekly Continuous | Bi-weekly Continuous | Bi-weekly Continuous | Bi-weekly Continuous | Bi-weekly Continuous | Bi-weekly Continuous | Bi-weekly Continuous | Bi-weekly Continuous | Bi-weekly Continuous | Bi-weekly Continuous |
| E.coli, F.coli | Aquaculture samples into report | Quantitative | Data | Data | Data | Data | Data | Data | Data | Data | Data | Data |
| **5. SEDIMENTS** | | | | | | | | | | | | |
| **5.1 Sediment Quality** | | | | | | | | | | | | |
| Granulometry or Particle Size Composition | 29 Sites (11 in SB, 9 in BB, 9 in LL) | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| Particulate Organic Matter (POC & PON) | 29 Sites (11 in SB, 9 in BB, 9 in LL) | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| Trace Metals (Al, Fe, Cd, Cu, Ni, Pb, Mn) | 29 Sites (11 in SB, 9 in BB, 9 in LL) | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| Hydrocarbons | 5 Sites (3 in SB, 2 in BB) | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| **5.2 Aquatic Macrophytes** | LL Marches – Zostera & salt (SANP to facilitate this monitoring action) | Semi-Quantitative | Ad-hoc | Ad-hoc | Ad-hoc | Ad-hoc | Ad-hoc | Ad-hoc | Ad-hoc | Ad-hoc | Ad-hoc | Ad-hoc |
| **5.3 Benthic Macro Fauna – Soft Sediment** | 29 Sites (11 in SB, 9 in BB, 9 in LL) Sampling method – diver operated suction sampling | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| **6. ROCKY INTERTIDAL INVERTEBRATES (MACRO FAUNA)** | 8 Sites in SB, BB, OB | Quantitative | B-Annually (2 Yearly | B-Annually (2 Yearly) | B-Annually (2 Yearly) | B-Annually (2 Yearly) | B-Annually (2 Yearly) | B-Annually (2 Yearly) | B-Annually (2 Yearly) | B-Annually (2 Yearly) | B-Annually (2 Yearly) | B-Annually (2 Yearly) |
| **7. FISH COMMUNITY COMPOSITION & ABUNDANCE** | Fish Survey – 3 times in April or once annually. 16 sites in SB, BB, OB | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| | Data collection from anglers through SANP, Langebaan Yacht Club & Dr Colin Attwood | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| **8. BIRDS (Annual – Avian Demography Unit of UCT)** | | | | | | | | | | | | |
| **8.1 Seabird breeding colonies** (Penguins, gulls, terns, gannets, cormorants, oyster catchers) | Island in BB and OB. (SANP may continue with Oyster Catcher Project) | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| **8.2 Waders** | LL | Quantitative | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually | Annually |
| **9. ALIEN INVASIVE SPECIES** | SB, BB, OB, LL | Semi -Quantitative | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |
| **10. BEACH EROSION** | SB, BB, LL | Quantitative | ? | ? | ? | ? | ? | ? | ? | ? | ? | ? |

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# CHALLENGES

- Keeping up with the volume of work- especially pertaining to admin
- Increased industrial activities
- Aligning various monitoring programs to get a holistic picture and streamlining current 10 year plan
- Procurement Policy – develop policy to align with contributors procurement requirements
- Trustee contingency planning

# SUCCESSES

- Growing number of SBWQFT members/contributors
- Solid financial position
- Stable trustee platform
- Improved communication such as the new SBWQFT website
- Very successful Open Day & State of the Bay Report

# GOING FORWARD

- Appointment of permanent Operational Manager
- Incorporation of sediment movement and erosion monitoring
- Procurement – open tender on a frequent basis (every three years)

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