



CURRICULUM VITAE OF ENVIRONMENTAL ASSESSMENT PRACTITIONER

1. **Name of Staff:** Twalinothamba Akawa
2. **Position:** Environmental Assessment Practitioner
3. **Name of Firm:** Envirodu Consulting & Training Solutions cc
4. **Date of Birth:** 15 March 1982
5. **Nationality:** Namibian
6. **Education**

| Qualification | Specialization/Subjects | Completion Date | Institution (Mini-thesis title) |
|--|--|-----------------|---|
| Master of Philosophy (MPhil) (Environmental Management) | Specialization: Development Planning and Environmental Analysis | March 2012 | Stellenbosch University "Sustainability analysis of the Namibian marine fishing sector". |
| Bachelor of Science in Natural Resources & Conservation | Specialization: Fisheries and Marine Sciences | April 2005 | University of Namibia "Influence of environmental factors on distribution of Cape hake". |
| International General Certificate of Secondary Education | Subjects: Development Studies (A), Physical Science (A), Biology (B), English (C) and Mathematics (C) | November 2000 | Oshigambo High School |

7. Membership in professional bodies:

EAPAN (Environment Assessment Professionals of Namibia) as **Apprentice Practitioner** (Membership #130)

WEMAF (Walvis Bay Environmental Management Advisory Forum) as **Member**

8. Other Training

Table 2: Continuous skills and capacity development.

| Skills and competencies | Institution | Qualification | Completion Date |
|--|--|--|-----------------|
| Quality Management System | World Wide Industrial Systems and Engineers | Certificate of Competence ISO 9001: 2015 "Quality Management System" Internal Auditor. | November 2022 |
| Marine pollution prevention and monitoring | Benguela Current Convention | Certificate of Attendance: <i>Marine Pollution Hotspot Monitoring Training Workshop</i> | May 2017 |
| Basic sea safety, fire prevention and firefighting | Namibian Maritime and Fisheries Institute | Certificate in Basic Safety and Familiarisation | September 2016 |
| Environmental education and awareness | Certificate Namibia Coast Conservation and Management/Ministry of Environment and Tourism | Certificate of Completion: <i>Environmental Education Short Course</i> | September 2015 |
| Geographical Information System | Intergovernmental Oceanographic Commission (IOC) for UNESCO (United Nations Educational, Scientific and Cultural Organization) | Certificate of Completion: <i>Ocean Teacher Academy Data Management Course: "Introduction to Marine GIS"</i> | May 2010 |
| Marine toxicology and ecosystem health assessment | Intergovernmental Oceanographic Commission (IOC) for UNESCO | Course Certificate: <i>Training on harmful algae blooms</i> | February 2007 |

9. Countries of Work Experience: Namibia



10. Languages Language:

| | Speaking | Reading | Writing |
|-------------------|----------|---------|---------|
| English | Good | Good | Good |
| Oshindonga | Good | Good | Good |

11. Employment Record

June 2013-June 2023 (10 years): ENVIRODU CONSULTING & TRAINING SOLUTIONS

CC as Project Administrator/Owner

Project development planning and environmental analysis. Project scoping (pre-feasibility study and risk analysis), scheduling, procurement, budgeting and preparations of tender documents. Project appraisals. Undertake SEAs (Strategic Environmental Assessments) and EIAs (Environmental Impacts Assessments) as well as compilations of EMPs (Environmental Management Plans). Support CRSs (Climate Resilient Solutions) to Climate Change. Complete ESIA (Environmental Social Impact Analysis), RAs (Risk Analysis) and BFS (Baseline Feasibility Studies). Undertake ecosystem/biodiversity assessments; maritime pollution and monitoring. Hiring/sub-contracting and support internal and external Consultants. Project implementation; ensuring projects are planned and delivered effectively and timely. Compliance and review of projects with relevant statutory and regulatory requirements. Line management and development responsibilities for sub-contracted Consultants, EAPs and Field Assistants. Project monitoring and evaluation using KPIs (key performance indicators).

November 2007-June 2013 (16 years): UNIVERSITY OF NAMIBIA as Senior Marine

Science Technologist

General Laboratory management. Procurement logistics; sourcing of laboratory consumables and non-consumable items. New research project design and development of SOPs (standard operations procedures) for laboratories and equipment operations. Research project implementation/appraisal and preparation to ensure compliance to relevant statutory and regulatory requirements. Implementation of ISO (International Organisation for Standardization) requirements including ISO 9001: 2015 Quality Management System and BLMPs (best laboratory management practices).



April 2006-October 2007 (1 year and 6 months): MINISTRY OF FISHERIES AND MARINE RESOURCES as *Fisheries Research Technician*

CUFES operations, fisheries sea surveys, water quality analysis, zooplankton identification, counting and reporting.

March 2005-March 2006 (1 year): UNITED NATIONS OFFICE FOR PROJECT SERVICES (UNOPS) as *Project Assistant Manager*

Worked for the UNOPS to support new project activities for the CUFES (Continuous Underwater Fish Egg Counter) project under the Ministry of Fisheries and Marine Resources (MFMR). Ensure the sub-contractor awarded the engineering tender to mount the CUFES on the Namibian Research Vessel (RV) (RV/*Welwitchia*) complies to regional and international requirements so that data collected meets international standards. Support regional and international Consultants from elsewhere to be able to inspect the new Namibian CUFES for bench-marking and quality control purposes. Participate in regional marine surveys (South Africa/August 2005 onboard the Research Vessel/*Africana*) and international surveys (Norway/September 2005 onboard the Research Vessel/*Fridjof Nansen*) to witness CUFES operations. The CUFES project was later successfully integrated into the MFMR's activities and Mr. Akawa was later appointed as the Fisheries Research Technician responsible for CUFES along with other line duties.

PROJECT/CONSULTANCY EXPERIENCE

| No. | Name of assignment | Name of Project | Proponent or investor | Date of commencement | Date of completion |
|-----|----------------------------|---|---------------------------------|----------------------|--------------------|
| 1 | EIA and compilation of EMP | Scoping Report (including assessment) and EMP for Fuel Retail Facility at Spitzkoppe (Erongo region). The Proponent would like to construct and operate a Fuel Retail Facility in this remote and isolated area located north of Erongo region in order to serve tourists, tourism operators and local farmers. | Mr. Lesley Tjongarero | February 2023 | May 2023 |
| 2 | EIA and compilation of EMP | Scoping Report (including assessment) and EMP for Brukkaros Hydroponics (PTY) LTD. The Ministry of Agriculture, Water and Land Reform supports the Bring Back Better Agriculture (BBB) Project which focuses on increasing food sufficiency in urban areas. The initial pilot sites of the BBB project were Erongo, Hardap, Khomas and Kavango Regions. The Proponent would like to apply the BBB concept in Karas region (Keetmashoop) by constructing and operating an aquaponic urban farm with complete solar. | Brukkaros Hydroponics (PTY) LTD | January 2023 | April 2023 |

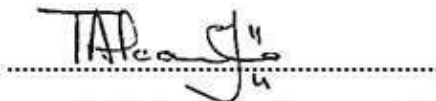
| | | | | | |
|---|----------------------------|---|--|----------------|---------------|
| 3 | Ballast water management | Risk Assessment Report to Support Application to be exempted from installation of a ballast water management system onboard 2 vessels operating within the SADC region. The Walvis Bay Corridor Network promotes the maritime transport sector especially in the SADC (South Africa Development Community) region. The International Maritime Organisation (IMO) requirements to have all vessels install ballast water systems onboard is good to prevent spread of invasive aquatic species; however, for vessels operating within SADC the risk of spreading invasive aquatic species could be lower or within acceptable limits. The Proponent needed to be exempted from installation of a ballast water system onboard the vessels and approached ECUTS for compilation of a Risk Assessment Report to Support Application for exemption. Exemption was granted (February 2023). | Anglolink Commercial (PTY) LTD | November 2022 | January 2023 |
| 4 | EIA and compilation of EMP | Scoping Report (including assessment) and EMP for Ufudu Marine Namibia cc, Walvis Bay. The Proponent would like to provide in-water cleaning service to vessel operators within the Walvis Bay port using underwater cleaning technologies. This underwater technology reclaims marine debris (also called bio-film) removed from the vessels and this allows for the biofilm to be easily managed and controlled. The ECC was approved (December 2022). | Ufudu Marine Namibia cc | September 2022 | November 2022 |
| 5 | EIA and compilation of EMP | Scoping Report (including assessment) and EMP for Brandberg White Lady Lodge, Daures Constituency. The Proponent would like to construct and operate a private landing strip to facilitate landing and taking-off of light aircrafts in order to boost tourism. Application for ECC is pending approval. | Brandberg White lady Lodge and Tsiseb Communal Conservancy | August 2022 | November 2022 |
| 6 | Policy development | Development of a National Oil Dispersant Use Policy for Namibia. The Client (Ministry of Works and Transport) needed to develop this policy in order to be able to use oil dispersants at sea to combat oil spills. Currently the use of oil dispersants is unregulated and this policy, when approved, will enable the Client do regulate oil dispersants. The Client appointed ECUTS to develop the policy and facilitate stakeholder engagements required during the policy development process. | Ministry of Works and Transport | May 2022 | December 2022 |
| 7 | EIA and compilation of EMP | Scoping Report (including assessment) and EMP for Benguela Blue Aqua PTY (LTD), Lüderitz. The Proponent aspires to construct and operate a first finfish farm in Namibia. The proposed farm will be comprised of state-of-the art Facilities based both on land and offshore in a coastal town of Lüderitz (//Karas Region). The ECC was approved in December 2022. | Benguela Blue Aqua Farm PTY (LTD) | March 2022 | December 2022 |
| 8 | EIA and compilation of EMP | Scoping Report (including assessment) and EMP for Votorantim Metals Namibia (PTY) LTD's | Votorantim Metals Namibia (PTY) | September 2021 | February 2022 |

| | | | | | |
|----|---|--|-----------------------------------|----------------|---------------|
| | | Exploration Activities on EPL 7963, 8050 and 8051 Khomas and Hardap Regions (2022). | LTD | | |
| 9 | Cost benefit analysis and economic evaluation | Cost benefit analysis and economic evaluation of ecosystem services in the BCLME (Benguela Current Large Marine Ecosystem). This project was conducted by the University of Namibia on behalf of the BCC (Benguela Current Convention). | BCC (Benguela Current Convention) | September 2021 | July 2022 |
| 10 | EIA and compilation of EMP | Scoping Report (including assessment) and EMP for Mangroove (PTY) LTD's Exploration Activities on EPL 7795, 7796, 7797, 7798, 7799 and 7800 in Khomas, Omaheke and Hardap Regions (2021). | Mangroove (PTY) LTD | July 2021 | November 2021 |
| 11 | Port Pollution Baseline Survey | Port Biological Baseline Survey in the ports of Walvis Bay and Lüderitz, Namibia. This project was conducted by the University of Namibia on behalf of the Ministry of Works and Transport and is funded by the BCC (Benguela Current Convention) in line with compliance to the MARPOL Ballast Water Convention. | Ministry of Works and Transport | May 2021 | November 2021 |
| 12 | EIA and EMP | Environmental Management Plan for TUNACOR Fisheries Ltd.'s existing Seawater Treatment and discharging activities, Walvis Bay industrial area. | TUNACOR Fisheries (Pty) Ltd | July 2020 | August 2020 |
| 13 | EIA and EMP | EIA/scoping and EMP for upgrading and construction of Ugab Rhino Camp. Uis, Namibia. | Tsiseb Communal Consevancy | January 2019 | April 2019 |
| 14 | Health assessment | Ecosystem Health Assessment of the Walvis Bay Lagoon: monitoring & evaluation as provided in Environment Management Plan for the Walvis Bay port terminal expansion project. This project was funded by NAMPORT (Namibia Ports Authority) and was carried out by the University of Namibia. | Namibia Ports Authority (NAMPORT) | February 2016 | January 2019 |

13. Certification:

I, the undersigned, certify that to the best of knowledge and belief, these data correctly describe me, my qualification and experience.

Date: 21 May 2024



TWALINOHAMBA AKAWA