

CURRICULUM VITAE-ANTHONY MARK AVIS (DR)

PERSONAL INFORMATION

Name of Staff: Dr Anthony Mark Avis

Date of Birth: 26 September 1960

Profession: Environmental Consultant and Managing Director of Coastal & Environmental Services

Name of Firm: Coastal & Environmental Services

Years with Firm/Entity: 20 years Nationality: South African

Married since 1986: Wife Cheryl. Two Children. Jonathan - Born 1996; Luke - born 2002

QUALIFICATIONS

1983: BSc

1984: BSc (Honours)

1992: PhD (Rhodes)

DISSERTATION

Coastal Dune Ecology and Management in the Eastern Cape

ASSOCIATIONS

- Royal Society of South Africa
- Visiting Fellow; Department of Environmental Science; Rhodes University
- Associate, Rhodes University Investec Business School
- Certified Environmental Assessment Practitioner
- Botanical Society of South Africa
- South African Association of Botanists (SAAB)
- South African Council for Natural Scientific Professionals
- South African Institute of Ecologists and Environmental Scientists
- International Association of Impact Assessment

COMMUNITY INVOLVEMENT

- MEC Representative on the Board of the Albany Museum of Natural History (2001 – present).
- Member of Grahamstown Round Table service club (1994 -2001)
- Chairman, Grahamstown Trust (1989 – 1997)
- Member of the St Andrews Preparatory School Board (2009 - present)

NOTED ACHIEVEMENTS

- Publication of three manuscripts in refereed journals from research undertaken whilst an undergraduate student.
- Involvement as a principal consultant and coordinator of all specialist studies undertaken as part of the St Lucia EIA, being the youngest member of a team of 30 scientists involved in this project.

- Awarded the South African Association of Botanists Junior Medal. This is awarded to the candidate with the best PhD thesis in Botany for the particular year under review (1993).
- Instrumental in establishing the Environmental Science Programme at Rhodes University (in 1996), which later became the Environmental Science Department (2000)

PROFESSIONAL EXPERIENCE

1998 – present: Full-time Managing Director of Coastal & Environmental Services.

1989 – 1997: Lecturer and Senior Lecturer in Plant Ecology at Rhodes University.

Private environmental consultant and partner of Coastal & Environmental Services (CES, established January 1990), with expertise in EIAs and Integrated Environmental Management procedure.

1987 – 1988: Ecological Consultant with Loxton Venn and Associates, responsible for vegetation, soils and land surveys; veld conditions assessments and EIAs.

1983 – 1987: Full time research in ecology, including coastal management studies and Environmental Impact Assessments (EIAs).

CONSULTING EXPERIENCE

I have consulted in Botswana, Egypt, Kenya, Lesotho, Madagascar, Malawi, Mozambique, Namibia, Sierra Leone, South Africa and Zambia. Environmental consulting experience, in no particular order, includes:

ENVIRONMENTAL IMPACT ASSESSMENT

1. Principal consultant for the specialist studies for the Environmental Impact Assessments of proposed dune mining on the Eastern Shores of Lake St Lucia.
2. Overall responsibility as EIA project manager for all environmental aspects of Billiton's TiGen mineral sand mining operations in Mozambique, to produce an EIA that meets international standards.
3. EIA project manager for the Corridor Sands mineral sand mining project in southern Mozambique, to produce four EIAs to World Bank standards for the project's bankable feasibility study. EIAs produced for the mine site and smelter, the 400Kv power line, the 87km rail route and a bulk cargo facility at Matola Port. All these EIAs included the preparation of Environmental Management Plans.
4. EIA project manager for Tiomin Resources Inc (Toronto, Canada) for their Kwale mineral sands project in southern Kenya. Responsible for producing all six volumes of the EIA, regarded as the most comprehensive in Kenya to date.
5. EIA project manager for the EIA to support the rezoning of land to special purposes for the establishment of the Coega Industrial Development Zone (IDZ).
6. EIA project manager for the EIA to support the rezoning of land to special purposes for the establishment of the East London IDZ.
7. Numerous small-scale Scoping Reports as part of the Environmental Impact Assessment Process and in accordance with the requirements of the Environmental Conservation Act.
8. Pre-feasibility Environmental Impact Assessments, including one for BHP's mineral sand mining project in northern Mozambique, and similar projects in south-west Madagascar and Mozambique.
9. Study leader for a comprehensive EIA for a World Bank funded 400Kv power line in Malawi.
10. EIA for a dedicated haul road, material handling facility and jetty near Praia de Xai Xai, Mozambique for WMC Resources, Australia.
11. EIA Project Manager for the Nuclear Materials Authority of Egypt, to prepare the EIA as part of the Downer EDI Feasibility Study Team. (2007).
12. EIA for a large scale resort development, including two golf courses and three hotels in the Eastern Cape, South Africa. (Ongoing).
13. EIA for the Madiba Bay resort development, incorporating the development of various portions of land within a 5000 hectare site for a range of resort type facilities. (2005 – 2008).

14. Study Leader for an EIA for a large heavy mineral mining project in South West Madagascar for Exxaro (2006 – 2008).
15. Study Leader for an EIA for a proposed heavy mineral mine on the shores of Lake Malawi near Chipoka. (2005 – 2006).
16. Study Leader for an ESIA for a proposed large scale integrated tourism resort development in the Eastern Cape (2007 – 2008).
17. Environmental and Social consultants to the International Finance Corporation for the Kafue Gorge Lower Hydropower project, Zambia.
18. Study Leader for an Environmental, Social and Health Impact Assessment for a proposed large sugar cane to ethanol biofuel project in Sierra Leone for Addax Bioenergy, Geneva (2009 - 2010).
19. Study Leader for an ESHIA for a proposed large scale Jatropha biofuels project in Mozambique (2009 - 2010).
20. Study leader for Environmental Impact Assessment for a proposed large scale copper and nickel mine in the North West Province of Zambia (2010).
21. Lead consultant for an addendum Environmental Impact Assessment for the proposed expansion of a heavy mineral mining project in Nampula Province, Mozambique (2010).
22. Quality control reviewer for approximately 8 EIA's for various Windfarm Projects in South Africa (2009 – 2010).
23. Study leader for an ESHIA for a proposed large scale palm oil plantation in Sierra Leone (2010).

POLICY AND STRATEGIC ASSESSMENTS

1. The development of the Eastern Cape Coastal Management Plan, to be adopted as policy by the Eastern Cape Government
2. Study leader for the preparation of a State of Environment Report, and Environmental Implementation Plan for the Amatole District Municipality, covering an area of approximately 25 000 km².
3. Reports on ecological assessments of the damage caused to the environment by alleged illegal developments along the former Transkei coastline.
4. Study leader and project manager for the preparation of a World Bank/Global Environmental Facility funded geographic Strategic Environmental Assessment of the proposed greater Addo Elephant National Park, Eastern Cape, South Africa.
5. A Strategic Environmental Assessment of four land use options in the Centane district of the Wild Coast.
6. SEA covering an area half the size of the Eastern Cape (former Transkei) to identify where afforestation projects could be implemented on a sustainable basis for poverty alleviation. Prepared for the Department of Water Affairs and Forestry (2006 – 2007).
7. Integrated Coastal Zone Management Plan for the Buffalo City Municipality, Eastern Cape South Africa, including numerous Management Plans for estuaries, beaches etc. (2006 – 2007).
8. A Sustainability Analysis of various land use alternatives to determine optimum land use for the future rehabilitation of lease areas at Richards Bay Minerals. (2006).
9. State of Environmental Report and Environmental Management System for the Ukhulambe District Municipality. (2005).
10. Strategic Environmental Overview for two integrated tourism anchor projects in Mozambique for the International Finance Corporation.

ECOLOGICAL

1. Ecological impact assessment for a proposed Zinc and Phosphoric Acid plant in the Eastern Cape.
2. Ecological specialist reports for the Coega Industrial Development Zone Strategic Environmental Assessment
3. Ecological impact assessment of proposed 800km Wild Coast N2 Toll Road, Eastern Cape.
4. Study leader for the ecological impact assessment of the Wild Coast Toll Road EIA, Eastern Cape and Kwazulu/Natal, South Africa.
5. Study Leader for Baseline Ecological Surveys of coastal lease areas in southern Mozambique for Rio Tinto exploration.
6. Pre-feasibility Ecological Survey of the Skeleton Coast to identify critical impacts linked to Diamond and Mineral Mining exploration.
7. Coordinator for ecological investigations to establish a sound baseline prior to implementing an EIA, North West Province, Zambia.
8. Assessment of the extent and conservation value of forested areas along the Wild Coast within the former Transkei, on behalf of the Eastern Cape Parks Board.

ENVIRONMENTAL MANAGEMENT

1. Project manager for a five-year rehabilitation programme of Samancor's Chemfos mine on the West Coast.
2. Development of an Open Space Management Plan for the Coega Industrial Development Zone (IDZ), including the demarcation of open spaces, formulation of uses within the open space, integration with MOSS principles and developing guidelines and a business plan for the management of the open space system.
3. Preparation of numerous Environmental Management Programme Reports, in terms of the Minerals Act, for quarry operations in the Eastern Cape, including EMPRs for both the Eastern and Western Coega Kops.
4. Study Leader for the development of two detailed and definitive Environmental Management Plans for the construction of two large bridges across rivers in the Wild Coast, as part of the Wild Coast N2 Toll Road Project, for South African National Roads Agency Limited. (2006).
5. Joint Study Leader for the development of numerous Construction and Operational Phase Environmental and Social Management Plans for Tiomin's proposed Kwale mineral mine in Kenya.

OTHER

1. A position paper on the current ecological knowledge of the Eastern Cape Provincial Coastline: implications for planning and research.
2. Environmental training and teaching for a number of professional short courses, and at undergraduate and postgraduate level at Rhodes University.
3. Presented 29 conference papers and published 19 scientific articles in peer reviewed scientific journals.
4. Presented various courses on aspects of Environmental Impact Assessment, most notably as a key presenter on the EIA Short Course offered by CES since 2000.
5. Short course on Strategic Environmental Assessment offered to Rhodes Invested Business School MBA students.