



# Cape EAPrac

## Company Profile

Cape Environmental Assessment Practitioners (Pty) Ltd was established in March 2008 by Directors **Doug Jeffery** and **Louise-Mari van Zyl**. The full time professional team includes: **Melissa Mackay** (Practitioner / GIS / ECO), **Dale Holder** (Practitioner / GIS / ECO), **Siân Holder** (Practitioner / Environmental Education), **Frede Benadé** (Environmental Officer), **Onke Nandipha** (Project Assistant) and **Carin Naudé** (Business Administrator).

The firm implements legislation under the National Environmental Management Act (NEMA), National Environmental Management: Waste Act (NEM:WA) and the National Environmental Management: Air Quality Act (NEM:AQA).

Our main services include:

- Environmental Impact Assessments (EIA's & Basic Assessments)
- Environmental Management Policies & Plans (EMMP's)
- Environmental Control & Monitoring (ECO)
- Environmental Audits
- Environmental Education & Interpretation
- Environmental Constraints Analysis
- Public Participation & Stakeholder Engagement
- Outeniqua Sensitive Coastal Area Permits (OSCA)
- Forestry Applications (for removal/pruning of protected species)
- GIS & Mapping
- Retrospective Damage Assessment (Section 24G)
- Rehabilitation Plans
- Coastal Water Discharge Permits
- Air Quality Licence Applications (AEL's)
- Waste Management Licence Applications (Waste Licence)

PO Box 2070  
17 Progress Street  
6530 GEORGE

Tel: +27 44 874 0365  
Fax: +27 44 874 0432  
Cell: +27 71 603 4132

[www.cape-eaprac.co.za](http://www.cape-eaprac.co.za)



# The Team

## Doug Jeffery - Director

Doug Jeffery obtained a Bsc with majors in Botany and Zoology at the University of Cape Town (UCT) and went on to obtain his MSc in Botany also at UCT. He has worked extensively in the Western-, Southern- and Eastern Cape both as a professional Botanist and coordinating EIA processes for over 20 years. He has been registered with the South African Council for Natural Scientific Professions as a Natural Scientist since 1990. He is also registered with the Interim Certification Board for Environmental Assessment Practitioners of South Africa.



## Melissa Mackay

Senior Practitioner / GIS / ECO

Melissa obtained her National Diploma in Nature Conservation from PE Technicon in 1996 and a BTech from NMMU in 2013. She gained experience in various fields, including animal handler & farm manager in the United Arab Emirates (1997-1999), Tourism Manager for the Western Cape Nature Conservation Board (now Cape Nature) and onboard observer on commercial fishing vessels. She started working as an Environmental Practitioner in 2006. Her main duties include Process Management for Environmental Impact Assessment, GIS & Mapping, Damage Assessments, Environmental Management Plans, ECO and Public Participation.



email: mel@cape-eaprac.co.za

## Siân Holder - Practitioner / ECO

Siân has a National Diploma in Nature Conservation, a BTech Nature Con (NMMU) and a Masters Degree in Environmental Education (Rhodes University). She worked at Tsitsikamma National Park as an Environmental Education Officer on environmental education programmes for Wilderness Foundation SA. She then served as the Experiential Education Manager and wilderness guide for Wilderness Foundation. She joined the environmental consulting vocation in 2008.



email: sian@cape-eaprac.co.za

## Frede Benadé - Environmental Officer

Frede joined the team in 2018. He obtained a Bsc. Hons in Conservation Ecology (Stellenbosch University). He spent eight months with Wildlife ACT, an NGO specialising in endangered species monitoring with particular focus on wild dogs.



email: frede@cape-eaprac.co.za

## Louise-Mari van Zyl

Director / Principal Practitioner

Louise-Mari van Zyl holds a Masters degree in Geography & Environmental Sciences from the University of Stellenbosch. She worked as an Environmental Assessment Practitioner (EAP) since 2002 on projects in the Eastern, Southern, Western & Northern Cape provinces. She is registered as an EAP with the Interim Certification Board for Environmental Assessment Practitioners of South Africa.



email: louise@cape-eaprac.co.za

## Dale Holder

Senior Practitioner / GIS / ECO

Dale graduated from the Technicon Pretoria in 1999 with a National Diploma in Nature Conservation. He worked as a Socio-Ecologist for SANParks and as Project Manager for the Department of Marine and Coastal Management. He started working as an environmental practitioner in 2002. He has experience in Environmental Planning, Environmental Management Plans and Frameworks, Process Management of Environmental Impact Assessments, GIS & Mapping, Environmental Control and Rehabilitation Management & Design.



email: dale@cape-eaprac.co.za

## Carin Naudé

Business Administrator

Carin obtained a BBA degree through UNISA. She gained extensive experience in business management and administration since 1988. She joined Cape EAPrac in June 2008 and is responsible for the day to day administrative functions of the business. Her acquired knowledge and leadership skills enables the rest of the team to function efficiently in their respective fields.



email: carin@cape-eaprac.co.za

## Onke Nandipha - Project Assistant

Onke obtained a BSc in Environmental Sciences (2017) and a BSc Honours in Geography in 2018. He is appointed to gain practical knowledge and experience in the environmental management field. His excellent communication skills in both English and Xhosa, combined with his knowledge and understanding of environmental management makes him a valuable asset on projects where language barriers are a constraint.



email: onke@cape-eaprac.co.za

## PROJECT EXPERIENCE INCLUDES

Reverse Osmosis Desalination; Sensitive Environmental Management including National Parks/Conservation Areas & World Heritage Sites; Renewable Energy Projects (Solar & Wind); Waste Management License Applications for Waste Disposal Sites, Sewerage Plants & Abattoirs; Waste-to-Energy Projects including Biogas Facilities; Marine Aquaculture; Filling Stations; Air Emission Processes for Sawmills, Brick Works & Processing Plants; ECO responsibilities on Private & State Housing Developments, Provincial & Municipal Roads and Infrastructure, Private, Provincial & Municipal applications for development of infrastructure, housing & commercial components

LIST OF ONGOING **CAPE EAPRAC**  
PROJECTS IS AVAILABLE  
ON REQUEST.  
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WEBSITE FOR MORE DETAILS  
[www.cape-eaprac.co.za](http://www.cape-eaprac.co.za)



# Melissa Cornwell Mackay

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## Personal Details:

Date of Birth	07 March 1971
ID Number	7103070033084
License	Code 10 (no PDP at present)
Languages	English and Afrikaans (reading, writing and speaking)
Health	Very good
Computer Literacy	Excel, Word, PowerPoint, MS Projects, CRS bookings program, CorelDraw, Email and Internet, GIS, ArcView, SANBI's BGIS online Land Use Decision Support, Cape Farm Mapper, Windeed, Google Earth Pro and Joomla website design.

## Overview

I have been employed as a senior Environmental Assessment Practitioner from 2006 to present working in various provinces in South Africa, as well as in the Republic of Congo. I have been involved in a number of projects including the Sedgefield Desalination Plant, Algoa Bay Marine Aquaculture Facility, Karatara River Weir (Knysna), Lunsklip Windfarm (Still Bay), Humansrus Solar PV facilities (Prieska), Uniondale Wastewater Treatment Works, George Airport radar tower, hotel and filling station, multiple residential and road projects, Environmental Management Programmes and Ecological Control Officer duties and facilitated several biogas facilities to completion. I wrote and compiled the Environmental Impact Assessment documents for an anti-poaching base in the Odzala-Koukoua National Park in the Republic of Congo (Brazzaville) as well as the Motivation Report and Draft Norms & Standards for the Treatment of Organic Waste in South Africa.

I have worked very closely with the South African National Parks (SANParks) Environmental Planner for the Garden Route as well as with CapeNature, with whom I was previously employed. Please see details below regarding work experience.

I obtained my BTech degree in Nature Conservation with the Nelson Mandela Metropolitan University. Please see details below regarding education.

## Tertiary Education

<b>2011 - 2013</b>	Saasveld Campus, NMMU	George
	<ul style="list-style-type: none"><li>▪ Successfully completed a BTech Nature Conservation.</li><li>▪ Subjects completed include Conservation Management I, Research Methodology (with Distinction), Resource Management IV, Plant Studies IV, Freshwater Management IV (with Distinction) and Coastal and Marine Management I.</li></ul>	
<b>1994–1996</b>	Saasveld Campus, PE Technikon	George
	<ul style="list-style-type: none"><li>▪ Successfully completed a National Diploma Nature Conservation.</li></ul>	
<b>1990</b>	Rhodes University	Grahamstown

- 1<sup>st</sup> year non continuous pass in Journalism, Drama and English Literature.

## Experience

### June 2008 – Present

- Currently one of the senior Environmental Consultants at *Cape EAPrac* in George in the Southern Cape.  
Duties include baseline assessments, damage and rehabilitation assessments, Environmental Impact Reports and Applications with related public participation exercises, Coastal Waters Discharge Permits, Ecological Control on site, GIS mapping for development projects and processing and responses to Appeals on Environmental Authorisation.
- Have presented at several conferences, workshops and training platforms on the topics of organic waste, biogas and project specific topics, notably aquaculture and desalination.
- Currently facilitating the task team for the development of Norms & Standards for the treatment of Organic Waste in South Africa and authoring the Motivation Report and Norms & Standards for submission to the national Department of Environmental Affairs. The documents are currently out for public review at [www.cape-eaprac.co.za](http://www.cape-eaprac.co.za).
- Co-opted onto the working streams (organic waste stream) of Operation Phakisa for Waste from July to August 2017 as part of a presidential initiative to unlock the waste economy.
- Working knowledge of applicable legislation and policies.
- Facilitation of Environmental Impact Assessments in terms of the National Environmental Management Act (NEMA) and project management during process.
- Co-author of the Development of Draft Norms & Standards for Waste Management in the Red Meat Abattoir Industry which is being developed to improve the waste strategy of abattoirs in South Africa.
- Co-author of the Legislative Analysis for Biogas in South Africa for the Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ).
- Developed an interactive management tool for the Biogas Working Group to assist in legal process management.
- Guest lecturer for IBBK Fachgruppe Biogas GmbH in December 2014, June 2015 and February 2016 on South African Legislation and biogas implementation.
- Convener and speaker for the South Cape Weeds Forum, a joint forum with the Department of Agriculture to promote the combating of alien weeds in the Southern Cape.
- Designed the company's website ([www.cape-eaprac.co.za](http://www.cape-eaprac.co.za)) and manage and maintain content.
- The Karata River Weir project which I managed was awarded second place for the South African Institute of Civil Engineering (SAICE) 2014 Environmental Division Awards.
- Project managed by myself chosen as 2010 IAIAAsa Premium Awards Finalist for excellence in Integrated Environmental Management.

### October 2006 – June 2008

- Previously one of the two senior Environmental Consultants at HillLand Associates in George in the Southern Cape.
- Duties include baseline assessments, damage and rehabilitation assessments, Environmental Impact Reports and Applications with related public participation exercises, Ecological Control on site, GIS mapping for development projects and processing and responses to Appeals on Environmental Authorisation.
- Facilitation of Environmental Impact Assessments in terms of the National Environmental Management Act (NEMA) and project management during process.
- Also coordinated Environmental Liaison Committees for various projects as well as preparing of monthly compliance reports, Environmental Management Plans and assisting in Environmental Management Frameworks. Started a program of providing information regarding the EIA process

to conservancies via the Outeniqua Conservancy Forum.

**April 2004 – September 2006**

- Floor supervisor, retail assistant and receiving clerk at Wordsworth Books in George.
- Managing the family farm while my parents are in the UK. We had a small dairy herd and made cheese for restaurants. Apart from the day-to-day animal husbandry, I have been responsible for the bookwork and staff management. We have also been extensively involved with Cape Nature Conservation as members of the Herold Conservancy with regards land clearing, clean up programmes and fire management.
- Was employed on a contract basis by Capricorn Fisheries in Cape Town as an onboard observer on commercial fishing vessels operating from St Helena Bay and Cape Town harbour.

**2000–2004                      Western Cape Nature Conservation Board**

Tourism Manager

- Initiated and established the Breede River Bookings Office in Bredasdorp in January 2003. The office was set up to process bookings for De Hoop (including Potberg Environmental Centre and the Whale Trail), De Mond, Grootvadersbosch, Marloth, Anysberg and Walkerbay nature reserves. The office brings in at least half of the revenue received by the Board for tourism activities.
- Act as tour guide, ecological control officer and information officer whenever necessary.
- Responsible for maintaining relations between local tourism organisations / facilities and the reserve.
- Part of the team responsible for tourism development including infrastructure on De Hoop Nature Reserve, including the construction and implementation of the De Hoop Whale Trail.
- Responsible for finances generated by the Bookings Office, as well as expenditures.
- Was co-opted onto the Suidpunt Tourism Bureau for 2003/2004.
- Attended the Durban Indaba for the Board in 2002 and 2003.
- Responsible for setting up and manning of exhibitions in the Overberg region, including agricultural shows, TVOS Fly-In etc.
- Supervise clerks, housekeeping and maintenance teams for all tourism activities on the reserve, these include campsites, self-catering chalets, 5 day hiking trail, Lekkerwater luxury accommodation, mountain bike trails, day trails, information centre and day visitors.
- Supervise bookings and administration staff in Bredasdorp and acted as liaison for personnel from reserves.
- Supervise implementation and correct utilisation of bookings computer.
- Responsible for keeping tourism facilities up to an acceptable standard.
- Act as liaison between members of the public and the organisation.
- Responsible for the drawing up and implementation of budgets and APO for the tourism section.

**1997–1999                      Various (Worldwide)**

- Summer camp counselor in the United States of America.
- Receptionist on Burgh Island hotel, Devon, United Kingdom.
- Animal handler and farm manager for Sharjah Desert Park's breeding centre in the United Arab Emirates. The breeding centre was established to create a core population of endangered Arabian wildlife, initially in zoo conditions. The animals ranged from Arabian leopards, cheetahs, wolves and foxes, all varieties of wild cats, to birds and reptiles as well as small mammals. My responsibilities were foxes, some of the bird species and domestic Arabian livestock for showing. The work entailed quite extensive animal husbandry.

**Short  
Courses**

- Strawberry picking, fruit packing and other temporary work in the United Kingdom.
  - Photographer for Capital Photography at the London Dungeon, United Kingdom.
- Ocean Divers International Open Water One Scuba Training, Plettenberg Bay, 1991
- Problem Animal Control, Kalahari 1994
- Field Ranger Training, included plant id, animal tracking, orienteering, first aid and weapons training 1996
- Help Emergency First Aid, George, 1997
- Client Care and Communication, Cape Town, 2001
- Skippers License (theory only), Bredasdorp, 2002
- Law Enforcement, Bredasdorp, 2002
- Human Resources Workshop, Cape Town 2003
- Microsoft Excel XP Advanced, Cape Town, 2003
- Microsoft PowerPoint XP Advanced, Cape Town, 2003
- Commercial Fish Identification off South African Waters, 2004
- Observer Protocols on land and at sea, 2004
- Introduction to International Fishing Law, 2004
- Safety at Sea, 2004
- Introduction to ArcGis II, 2007
- NEMA 2006 EIA Regulations 2007
- NEMA Integrated Coastal Management Act, George, 2010
- NEMA 2010 EIA Regulations, 2010
- Joomla Web Design Course, 2010
- Business Report Writing, 2011
- NEMA 2014 EIA Regulations, 2014
- NEMA 2017 EIA Regulations, 2017.

**References**

- Ms Louise-Mari Van Zyl** (Director), Cape EAPrac, P.O. Box 2070, George, 6530, (044) 874 0365.
- Mr Jason Gifford** (Chairman: SABIA, Director: Logicalwaste), Logicalwaste, P.O. Box 954, Honeydew, 2042, 082 615 0747
- Ms Ena McIntyre** (Botanical Society), 18 Murray House, 21 De la Fontaine Street, George, 6529, (044) 873 3781
- Mr Tierck Hoekstra** (Business Unit Manager), De Hoop Business Unit, P.O. Box 594, Onrus River, 7201 (028) 316 3338 or 082 496 2447.
- Mr Ben Swanepoel** (Previously Conservation Manager, Marloth Nature Reserve near Swellendam, currently serving as Site Coordinator for the Wildlife Conservation Society in Laos), PO Box 6712, Vientiane, Lao PDR 01000, +856-21 215400.
- Mr Anton Schmidt** (Head of Department, Nature Conservation), Saasveld, Pvt Bag X6531, George, 6530, (044) 801 5031.
- Ms Maretha Alant** (Environmental Planner) Garden Route National Park, SANParks, P.O. Box 3542, Knysna, 6570, (044) 302 5624.



**CHRIS ALBERTYN, Pr Eng, CEng, QEP**

Chris Albertyn holds a degree in chemical engineering from the University of Pretoria. He spent 15 years' service in the Council for Scientific and Industrial Research (CSIR) during which time he researched air pollution measurement and control techniques and served as consultant to many industries in South Africa. Other fields of experience gained at the CSIR include waste control and disposal, the development of chemical processes and aspects of engineering and measurements relating to occupational health.

On leaving the CSIR he started his own consulting business and has been active in private business for more than 25 years. His experience in the field of environmental investigations, management and control measures extends over a period of approximately 40 years and he has conducted air quality investigations for numerous corporate clients and all levels of government departments.

He served on the South African National Accreditation System (SANAS) Technical Advisory Committee on Air Quality which culminated in the publication of SANAS Report No. TR 07-03, "*Supplementary Requirements for the Accreditation of Continuous Ambient Air Quality Monitoring Stations*". This report defines standards and norms for ambient air quality monitoring in South Africa.

He compiled air quality management plans for the Eden District Municipality, the Nelson Mandela Bay Municipality (Port Elizabeth), the Buffalo City Metropolitan Municipality (East London), contributed to the plan for the Limpopo Province and revised the air quality management plan for the Eden District Municipality. Each of these projects included the compilation of extensive emissions inventories, covering all of the possible sources in each area.

He currently serves as air quality consultant to the Coega Industrial Development Corporation and covers all aspect associated with ambient air quality monitoring and cumulative dispersion modelling studies within the industrial development zone.

Multi-disciplinary projects undertaken include the following:

- Coordination of a multi-disciplinary team of specialists to assist a waste disposal company to assess their operations for implementation of operating procedures and installation of equipment to attain regulatory compliance.
- Assessment of a wood pelletizing plant with the aim of optimising process efficiency, increase product recovery, optimise water usage and minimise atmospheric emissions.
- Modification and optimising of the effluent treatment activities of a tannery to reduce the potential of odorous emissions.

Chris assisted a number of industries in their applications for atmospheric emission licences (AELs) by carrying out specialist air quality impact assessments that were based largely on detailed dispersion modelling studies. In addition to these studies, he carried out various specialist dispersion modelling studies for a number of industries, both locally and abroad.

During his career Chris Albertyn served on the following committees:

- Chairman of a branch of the South African Institution of Chemical Engineers (SAIChE)
- President of SAIChE
- SAIChE's Council and Executive committee



- Professional Advisory Committee on Chemical Engineering of the Engineering Council of South Africa (ECSA)
- Council member of the National Association for Clean Air (NACA) in South Africa
- SANAS' Specialist Technical Committee on Air Quality

Chris is a member of the following organisations:

- Honorary Fellow of the South African Institution of Chemical Engineers
- Fellow of the Institution of Chemical Engineers, UK
- Institute of Professional Environmental Practice, USA

He holds the following professional registrations:

- Professional Engineer (PrEng) by the Engineering Council of South Africa (ECSA)
- Chartered Engineer (CEng) by the Engineering Council in the UK
- Qualified Environmental Professional (QEP) by the Institute of Professional Environmental Practice in the USA, a certification that is awarded for multidisciplinary environmental management expertise.

The Qualified Environmental Professional (QEP) certification is the first and only credential of its kind. It is a multi-media, multi-disciplinary, board-certified credential that requires environmental professionals to view “the big picture” and to have the skills and knowledge to resolve “real world problems”. It is international in scope and has received accreditation by the Council of Engineering and Scientific Speciality Boards (CESB). The CESB is an independent organisation which accredits engineering, scientific, and technology certification programmes.

The QEP is distinguished from other certifications by its cross-disciplinary nature, its qualifying education prerequisites, its continuing education requirements for re-certification, and by its rigorous application and examination process. The QEP elevates the environmental profession by establishing a professional standard and by providing a career track for new professionals entering the field. It does not replace specialised certification or registration, but is rather a unique credential that serves to link and coordinate environmental fields.