

# Appendix 1: *Curriculum Vitae*: Environmental Assessment Practitioners

## **Michael Cohen**

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### **Date of Birth:**

18 January 1945

### **Nationality:**

South African

### **Languages:**

English (mother tongue), Afrikaans (good)

### **Qualifications:**

B.Sc. (Zoology, Psychology. Wits. RSA).

B.Sc. (Hons) (Wildlife Management. U Pretoria).

M.Ag. (Wildlife and Fisheries Ecology: Texas A&M). (1973)

D.Sc. (Wildlife Management. U Pretoria). (1988)

### **Institutions:**

South African Council of Natural Scientists (SACNAS)

Professional Member - Institute of Ecologists and Environmental Scientists

Member - International Association for Impact Assessment - South African Chapter

Member of IUCN Commission on National Parks and Protected Areas. (CNPPA) (1994 -1996)

Member of IUCN World Commission on Protected Areas (1997 – current)

Honorary Member of the Institute of Environment and Recreation Management of Africa 1995

Appointed to the Board of the Institute of Ecologists and Environmental Scientists - April 1997-May 2000

Referee to environmental assessment practitioners applying to the Interim Certification Board for Environmental Assessment Practitioners (ICB) for professional certification (2001 - present)

Appointed to the Council of the Provincial Heritage Resource Authority. Ministry of Sport, Arts and Culture. Province of the Eastern Cape 2003 (Resigned)

### **Professional History:**

May 1996 – Present

Environmental Consultant: CEN Integrated Environmental Management Unit

#### **July 1995 - May 1996**

Director: Eastern Cape Nature Conservation. Ministry of Economic Affairs, Environment and Tourism. Left to start own consultancy business

#### **January 1993 - June 1995**

Regional Director: Cape Nature Conservation. Eastern Cape Region

#### **October 1985 - December 1992**

Deputy Director: Environment. Chief Directorate: Environmental Conservation Directorate: Environmental Management Department of Environment Affairs

#### **July 1983 - September 1985**

Assistant Director: Environment Chief Directorate: Environmental Conservation Department of Environment Affairs

**March 1981 - July 1983**

Chief Professional Officer Chief Directorate: Environmental Conservation Department of Environment Affairs

**June 1978 - February 1981**

Regional Ecologist: Transvaal Nature Conservation Division: Eastern Region (TPA)

**August 1976 - May 1978**

Officer-in-Charge. Suikerbosrand Nature Reserve Transvaal Nature Conservation Division (TPA)

**1972 - July 1976**

Research Assistant Eugene Marais Chair of Wildlife Management University of Pretoria

#### **Specialist Courses:**

1993 Completed the certificate course in Public Management at the University of Pretoria. The certificate was awarded Cum Laude

1989 Completed course in Practical Techniques in Environmental Impact Assessment conducted by the Environmental Evaluation Unit at the Graduate School of Business, University of Cape Town

1973 Completed the International Seminar on the Administration of National Parks and Equivalent Reserves held in the United States, Canada and Mexico

1973 Completed short course in Tropical Ecology while at Texas A & M University

#### **International Experience:**

Nominated as a member of an international team to evaluate the professional activities of the Nature and National Parks Protection Authority of Israel (Evaluation was to be conducted during November 2000)

1994 - Represent South Africa as Scientific Councillor on the Convention on Migratory Species - Nairobi, Kenya

1994 - Alternate delegate for South Africa at the Conference of the Parties of the Convention on Migratory Species - Nairobi, Kenya

1994 -Member of the negotiations team for the African Eurasian Waterfowl Agreement - Nairobi, Kenya

1993 -Represent South Africa as Scientific Councillor on the Convention on Migratory Species - Bonn, Germany

1992 -Visit to Israel to hold preliminary discussions on a bilateral agreement on Nature and Environmental Conservation

1992 -Participate in the IV World Congress on National Parks and Protected Areas - Caracas - Venezuela - Present two papers at the Congress and participate in numerous working groups on a wide range of protected area issues

1991 - 1995 South African Representative on the Scientific Council for the Convention on Migratory Species

1990 -Visit to England and Israel (met with a variety of nature and environmental conservation organisations) for discussion on joint projects and for discussions on national and regional protected area systems plans

1989 -Member of South African delegation to the XV Antarctic Treaty meeting, Paris

1988 -Delegate to the 17th IUCN General Assembly - Costa Rica

1986 -Seminar on Environmental Education - Israel

#### **Specialisation in Firm:**

Integrated Environmental Management, Environmental Impact Assessment, Rural Development, Natural Resource Planning and Management

#### **Recent Experience:**

##### **Environmental Impact Assessment:**

##### **2006 – To Present Selected Projects**

Scoping Exercise for a Proposed Pilot Aquaculture Operation for the Grow-Out of *Penaeus vannamei* Prawn Larvae For Commercial Purposes Within the Coega Industrial Development Zone at Port Elizabeth Eastern Cape Province Ballastrada Trade and Investments (Pty) Ltd, Trading as SeaArk Africa

Environmental Management Plan for a Pilot Aquaculture Operation for the Grow-Out of *Litopenaeus vannamei* Prawn Larvae For Commercial Purposes, Coega Industrial Development Zone at Port Elizabeth, Eastern Cape Province

Environmental Assessment for a Proposed Interpretive Centre, Day Visitor Site and Boardwalk Trail in the, Baviaanskloof Mega-Reserve Wilderness Foundation

Environmental Assessment for a Proposed Residential Development, Remainder of Erf 328 Kabeljous River Jeffrey's Bay

Environmental Assessment for the Augmentation of the Jeffrey's Bay Bulk Water Supply System (Pump Station, Supply Mains from Churchill Supply Mains and 5 MI Reservoir)

Environmental Assessment for the Proposed Augmentation of the Jeffrey's Bay Main Electrical Substation

Environmental Assessment for a Proposed Residential Development, Remainder of Farm Noorsekloof 327, Jeffrey's Bay  
 Environmental Assessment for the Proposed Rezoning and Subdivision of Portion of Portion 8 of the Farm Kabeljous River No. 321, Jeffrey's Bay  
 Sensitivity Assessment for the Subdivision of Portion 1 (Remaining Extent) of the Farm Klein Buffelsfontein No 477/1  
 Environmental Assessment for a Proposed Resort Development, Portion 84 of the Farm De Stades No. 485, Beachview  
 Environmental Assessment for the Rezoning and Subdivision of the Remainder of the Farm Boschkloof No. 896, Division of Humansdorp  
 Environmental Assessment for the Rezoning of Portion B of the Remainder of Farm 428 to "Special Zone Nursery"  
 Environmental Management Programme Report for a Proposed Sand, Clay and Calcrete Mining Operation in the Coega Valley on Portions 1 and 4 of the Farm Welbedachtsfontein, 300, Port Elizabeth  
 Environmental Assessment for Subdivision and Rezoning of Erf 483 Bushman's River for Residential Development  
 Environmental Assessment for the Rezoning of Farms 328/1, 328/2 and Farm 779, Jeffrey's Bay, Kabeljous-on-Sea

### **2001 – 2004 Selected Projects**

Environmental Assessment for the Extension of the Tsitsikamma Golf Estate.  
 Environmental Assessment for a Residential Development in Jeffrey's Bay.  
 Environmental Assessment for a Township Development in Jeffrey's Bay  
 Environmental Assessment for Luxury Lodges and a Tent camp on the Mkambati Nature Reserve  
 Environmental Assessment for a Boat Launch Facility at Gwe-Gwe, Mkambati Nature Reserve  
 Environmental Assessment for a Boat Launch Facility at Kings Beach Port Elizabeth  
 Environmental Assessment for the Port Elizabeth Golf Course Estate  
 Environmental Assessment for a Resort Development on the Kromme River  
 Environmental Assessment for the Establishment of a Presidential Suite at the Eagles Cragg Lodge, Shamwari Game Reserve  
 Environmental Assessment for the Establishment of a Golfing Estate at the Port Elizabeth Golf Club  
 Environmental Assessment for the Eskom Tsitsikamma 66kV powerline  
 Environmental Assessment for three resorts in the Zuurrberg Area  
 Environmental Assessment for a Satellite Resort on the Gorah Concession Area, Addo Elephant National Park  
 Environmental Assessment for the Alicedale Golf Resort Development  
 Environmental Assessment for three lodges on the Lalibella Game Reserve  
 Environmental Assessment for the closure of the Marina Martinique Small Boat Harbour  
 Environmental Assessments for two caravan parks on the Gamtoos River  
 Environmental Assessment for the upgrading of the Road from Flagstaff to Holy Cross  
 Biophysical Environmental Assessment on the proposed ESKOM Power line to feed the Aluminium Smelter at Coega  
 Environmental Assessment of the Bayethe Game Reserve  
 Environmental Assessment of Eagles Cragg Game Lodge – Shamwari Game Reserve  
 Environmental Impact Assessment on the Sanderlings Coastal Wetland Resort  
 Scoping Report for boat mooring facilities on the Kromme River to serve a residential resort  
 Class Environmental Assessment for Working for Water projects in terms of the new DWAF Environmental Evaluation System  
 Environmental Scoping for a Housing Development on a Portion of Land in the Van Stadens Wildflower Nature Reserve  
 Environmental Impact Assessment on two Leather Tanneries in Middelburg, Eastern Cape Province  
 Compilation of an Environmental Evaluation System for the Department of Water Affairs and Forestry (DWAF) (Eastern Cape) This environmental evaluation system is currently being incorporated into the national DWAF's Environmental Management System  
 Compilation of an Environmental Evaluation Administration System and Manual for the Department of Water Affairs and Forestry

### **Natural Resource Management**

Environmental Management Plan for the King Williamstown - East London National Road  
 Investigation into the Protected Area Estate in the Province of the Eastern Cape: A Review of Goals and Objectives, Strengths and Weaknesses and an Analysis of Various Institutional Structures Suitable for Achieving the Goals and Objectives.

Design and run RSA's premier stewardship programme (The South African Natural Heritage Programme and Sites of Conservation Significance Programme)

Co-ordinate South African Plan for Nature Conservation

Management Plan for the Suikerbosrand Nature Reserve

Management Plan for the Marion and Prince Edward Islands (Draft).

Protected Area Systems Plan

Management Plans for game farmers

Bioregional Planning

### **Policy**

Arrange and run two DWAF regional information sessions for the DWAF Regional Offices and Provincial Government Departments of the Western and Eastern Cape on the Implementation of the DWAF's (Eastern Cape) Environmental Evaluation System (2001). A further seven provincial workshops will follow.

Run five Eastern Cape Information Sessions for District Municipalities in the Eastern Cape Province on the Implementation of the DWAF Environmental Evaluation System (2001)

Member DANCED Review Mission on the National Waste Management Strategy

Compile South African National Report to the Convention on Biological Diversity

Sub-consultant to the Drafting team for the National White Paper on Integrated Pollution Control and Waste Management.

Member of a six person drafting team for the National Green Paper on an Environmental Management Policy for South Africa where I represented the nine provinces.

Appointed as one of the Reference Group for the National White Paper on an Environmental Management Policy for South Africa.

### **Papers and Publications:**

Author and co-author of some 27 papers, reports and conference presentations as well as a number of popular papers on environmental conservation.

### **Selected Clients**

#### **South African**

BKS

Blue Crane Development Agency

Crown Chickens

Department of Environmental Affairs and Tourism

Department of Water Affairs and Forestry

Lalibela Private Game Reserve

Mandela Bay Development Agency

Municipality of Port Elizabeth (Nelson Mandela Metropole)

Ninham Shand (Eastern Cape)

Portnet

Shamwari Game Reserve (Mantis Collection)

South African National Roads Agency Ltd

Stewart Scott (Eastern Cape)

Telkom South Africa

Vodacom South Africa

Wilderness Safaris

#### **International**

DANCED (Denmark)

IDRC (Canada)

European Union

## Curriculum Vitae: Belinda Joan Clark

### Qualifications

- ❖ B.Sc (Botany, Geology)
- ❖ B. Sc Honours (Botany: ecology, environmental management, agriculture)
- ❖ M.Sc (Botany: Marine Eco-physiology)
- ❖ PhD (Botany: Marine Ecology, focusing on marine pollution)

### Training and Workshops:

- ❖ Eastern Cape Tour Guide Course: January 2010
- ❖ Introduction to Wildflower Identification: January 2010
- ❖ National Biodiversity Planning Forum (2009)
- ❖ National Biodiversity Planning Forum (2008)
- ❖ Identification workshop on the *Ericaceae* family
- ❖ Advanced International Training in Urban Environment Management (2010 - 2011) – Sweden and Zambia
- ❖ EIA Regulations (2010, 2011) Workshops – various
- ❖ Climate Change Workshops (2011)
- ❖ Workshop: Integrated Coastal Management Act (Kenton, 2011). Imbewu
- ❖ Workshop: Introduction to the implementation of environmental law (Kenton, October, 2012). Imbewu
- ❖ Workshop: Contaminated Land Register (Port Elizabeth, February 2013). Imbewu
- ❖ Veld Management and Grass Identification course (Pretoria, February 2013). Africa Land Use Training
- ❖ Water Law Workshop (Port Elizabeth, August 2013). Imbewu
- ❖ Wetland Indaba (Cape St Francis, October 2013)
- ❖ Thicket Forum (various – 2009 to current)
- ❖ IAIA Pre-Conference Training – Revised General Authorisations Section 21 c and i applications (Port Elizabeth, August 2016)

## Seminars delivered:

- ❖ Nelson Mandela Bay Climate Change Conference – 2011: the role of academic institutions (specifically the NMMU Botany Department) in climate change planning
- ❖ Geography Conference – 2011: Environmental Impact Management in South Africa
- ❖ Thicket Forum – August 2008: Case study: Towards implementing environmental planning guidelines (STEP, MOSS, ECBCP) in EIAs
- ❖ Phycological Society of Southern Africa (PSSA) - January 1999: The effect of water-soluble oil extracts and metals on oxygen evolution rates by *Anaulus australis*.
- ❖ PSSA – July 2000: The effect of excess concentrations of nitrate, ammonium, and phosphate on cell division cycles of *Anaulus australis*.
- ❖ PSSA – January 2002: Microalgae as indicators of pollution in surf-zones in Algoa and St Francis Bay
- ❖ PSSA – January 2003: Increases in surf-zone nutrient concentrations as a result of increased septic tank outflow after an Easter weekend
- ❖ PSSA – January 2004: Surf-zone water quality and the associated microalgal species composition
- ❖ SAAB – January 2002: Microalgae as indicators of pollution on the south coast of South Africa
- ❖ South African Marine Science Symposium (SAMSS) – January 2005 – Factors determining the dominance of dinoflagellate cells versus *Anaulus australis*.
- ❖ UPE Departmental Seminars - Hydroponics (1997), Aspects of ecophysiology of *A. australis* (1998), Microalgae as indicators of pollution (project proposal) (2000), Microalgae as indicators of pollution (2001)

## Career Biography

- ❖ Nelson Mandela Metropolitan University (North Campus) (January 2004 – December 2006)
  - Responsibilities:  
Lecturer in Epidemiology II, III and IV (Department of Environmental Health)  
Supervising and participating in various post-graduate research projects, dealing largely with community health and environmental pollution
- ❖ IECM (January 2000 – December 2003)
  - Responsibilities:  
Coega Harbour Environmental Monitoring and Cerebos Saltworks contracts – water and sediment quality analyses, microalgal counts, invertebrate sorting

## Recent experience (CEN IEM Unit: 2006 - ):

### Basic Assessment Reports

## Completed Projects:

1. BAR for the proposed erection of an above-ground 2300 l diesel storage tank for a standby generator in an industrial area (Aberdare Cables)
2. BAR for the proposed rezoning and subdivision of a Portion of Erf 349, New Brighton to develop the Helenvale Community Centre (multi-purpose hall and offices) as part of the Helenvale Urban Renewal Programme.
3. BAR for the proposed augmentation of bulk water supply to Nieu-Bethesda, Camdeboo Municipality, Eastern Cape
4. BAR for the establishment of an oyster nursery on Erf 171, Swartkops (old coal power station site).
5. BAR for the proposed development of an Eco-Estate on Portion 190 of Chelsea 25, comprised of 18 residential units and associated infrastructure
6. BAR for the proposed Development and erection of a prototype 300 KW wind turbine adjacent to the Neptune Substation in the Coega IDZ.
7. BAR for the proposed rezoning and subdivision of Portion 75 of the Farm Kragga Kamma No 23 for rural-residential development.
8. BAR for the proposed rezoning, subdivision and consolidation of portions of Erf 1 and Erf 6, and the entire Erf 15831 in Uitenhage to develop housing (Joe Slovo Housing Project).
9. BAR for a desalination plant at the Old Power Station in Swartkops, Port Elizabeth
10. BAR for the construction of a water pipeline in Graaff-Reinet as part of the Drought Emergency Scheme
11. BAR for the construction of a promenade along a section of the Port Elizabeth beachfront
12. BAR for the upgrade of Kings Beach (Phase 2)
13. BAR for the proposed excavation of a portion of the western channel of the Bushmans Estuary, Eastern Cape
14. BAR for the proposed subdivision of Portion 3 of Farm No 43 in Theesecombe into 3 portions, Eastern Cape
15. BAR for the proposed sinking and pumping of two boreholes and further pumping of an additional 3 existing boreholes to supply water to the proposed Cob Creek Estate on Portion 21 of the Farm Kabeljaauws Rivier No 321 in Jeffreys Bay, Eastern Cape
16. BAR for the proposed establishment of lodges and tented camps, as well as the necessary services infrastructure on sections of the following farms in the divisions of Jansenville and Pearston, Eastern Cape Province: Remainder of the Farm Vlak Nek No 31, Ptn 1 of the Farm Vlak Nek No 31, Farm 30, Farm 101, Ptn 1 of the Farm Groot Kloof No 32, Remainder of Farm Groot Kloof No 32, Ptn 1 of the Farm Jacobsdal No 33, Remainder of Farm Jacobsdal No 33, Ptn 1 of the Farm Hinchinbrook No 92, Farm Oudeberg No 94, Ptn 4 of the Farm Smitskraal No 113, Remainder of the Farm Russouwspoor No 115, Remaining Extent of the Farm Smitskraal No 113, and Ptn 1 of the Remaining Extent of the Farm Smitskraal No 113
17. Basic Assessment and Waste Licence application of the upgrade of Kelvin Jones Waste Water Treatment Works (Phase 1)
18. BAR for the proposed construction and operation of a highway rest and service facility and associated infrastructure, including a Waste Water Treatment Plant on Ptn 147 of Farm Gedults River No 411 in the Division of Uitenhage
19. Basic Assessment for Umnyama Park Housing development in Graaff-Reinet
20. Basic Assessment for the rezoning of a portion of Erf 1226 in Fairview for a residential development
21. Basic Assessment for a lodge at Kwandwe Private Game Reserve
22. Basic Assessment for a sludge pumping main to transfer sludge from the Cape Recife Waste Water Treatment Works (WWTW) to the Driftsands WWTW

## Current Projects:

1. Basic Assessment for a communal jetty on the eastern bank of the Kromme River estuary
2. BAR for the proposed expansion to the Kelvin Jones Waste Water Treatment Works
3. BAR for the proposed upgrades to sections of the lower Baakens River Valley
4. BAR for the establishment of a staff village at Kwandwe Game Reserve
5. BAR for the expansion of the Mayfield Waste Water Treatment Works in Grahamstown
6. BAR for a mobile gasification plan in Uitenhage
7. BAR for the establishment of pipelines in the Mimosadale Wellfield in Graaff-Reinet

## Environmental Impact Reports

## Completed Projects:

1. EIA for a Low-Density Golf and Agricultural Estate on the Remainder of the Farm Excelsior No 443, Division Joubertina
2. EIA for the Proposed Development of an Integrated Residential Estate on Erven 5614 and 5616, KwaNobuhle, Uitenhage, Eastern Province
3. EIA for the Proposed Establishment of the Sardinia Bay Golf Estate on Erf 378 Theesecombe, Port Elizabeth
4. EIA for Roll-Out Phase of an Aquaculture Operation for the Grow-Out of *Litopenaeus vannamei* Prawn Larvae for Commercial Purposes and a Process Plant, Zones 1 and 10, Coega Industrial Development Zone, Port Elizabeth, Eastern Cape Province
5. EIA for Proposed Construction of a Link Road between Grahamstown Road and Seyisi Street in Port Elizabeth and the upgrading of stormwater infrastructure
6. EIA for the proposed Rezoning and Subdivision of Farms 36 and 37 in Theesecombe, Port Elizabeth for a Rural-Residential Development, Lodge and Associated Infrastructure
7. EIA for the Proposed Rezoning, Subdivision, and Consolidation of Farm Vrede No. 190, Knysna, Western Cape for a Residential Development (Simola Phase 3)
8. EIA and Waste Licence Application for the Proposed Augmentation of the existing Waste Water Treatment Works in Nieu-Bethesda
9. EIA, Waste Licence and Air Emission Licence applications for a pyrolysis plant on Erf 329 in Zone 6 of the Coega IDZ.
10. EIA for the proposed development of a Leisure Estate (Kadouw Leisure Estate) on Remainder of Farm 201, Ptn 15 of Farm 194, and Farm 627 in the Sundays River Valley area
11. EIA for the Proposed Rezoning and Subdivision of Ptn 1 and 118 of the Farm Chelsea 25 (Kragga Kamma Game Park), Port Elizabeth, Eastern Cape
12. EIA for the Proposed Rezoning of Portions 55, 56, 62 and 81 of the Farm Maitland Mines No 478, Uitenhage, Eastern Cape to Establish Lodge Developments and a Nature Reserve
13. EIA for the proposed operation of a 55 MW photovoltaic solar farm on Ptn 2 of the Farm Kraan Vogel Kuil in Pearston.
14. EIA for a landing strip and lodge at Kwandwe Private Game Reserve near Grahamstown.
15. EIA for a proposed housing development and associated infrastructure in Mount Fletcher.
16. EIA for a proposed cement grinding facility in the Coega IDZ

## Current Projects:

1. EIA for the Proposed Rezoning and Subdivision of Portion 1 of the Farm Seaview No 28 in Port Elizabeth for a Residential Development and Associated Infrastructure
2. EIA for the Proposed Rezoning and Subdivision of Erven 402,403, 438 and 726, Theesecombe, Port Elizabeth to establish a Residential Development and Associated Infrastructure
3. EIA and Waste Licence application of the expansion of the Cape Recife Waste Water Treatment Works (Phase 1)
4. EIA for the proposed N2 north housing development.
5. EIA for a proposed marine pipeline servitude in the Coega IDZ.

## Sensitivity Assessments/Feasibility Studies /Specialist Input Studies

### Completed Projects:

1. Sensitivity Assessment of Ashmead Resort in Knysna, Western Cape
2. Sensitivity Assessment for the creation of a high intensity mixed-use waterfront development on Erf 577 and a portion of Erf 578, Kings Beach, Port Elizabeth
3. Sensitivity Assessment of the Old Power Station site in Swartkops, Port Elizabeth
4. Environmental Sensitivity Description of Erven 268, 287 and 288 in the vicinity of Coega, Eastern Cape
5. Environmental Comment on the Proposed Port St Johns Master Plan
6. Environmental Input into the Happy Valley Local Spatial Development Framework Plan
7. Environmental Input into the Inner City Local Spatial Development Framework Plan
8. Environmental Input into the proposed development of a Military Health Unit in Forest Hill, Port Elizabeth



9. Specialist investigation of the Kariega River Estuary in response to a proposed housing development on the eastern bank of the estuary.
10. Specialist vegetation assessment for the EIA for a housing development in Motherwell
11. Specialist Ecological Impact Assessment for the NMBM (Coega) Reclaimed Effluent Scheme – Phase 1
12. Scoping Report: A review of available information of operations at the Manganese Ore Terminal and Storage Facility and Tank Farm on Erf 578 at the Port Elizabeth Harbour area with emphasis on environmental transgressions
13. Sampling protocol to determine the extent of potential contamination in the environment surrounding the Manganese Ore Facility and Fuel Storage Tanks in the Port Elizabeth Harbour
14. Sensitivity assessment of Erf 313 in the Coega area to inform possible land use options
15. Environmental input into a feasibility study to determine suitable locations for 8 rural police stations in Transkei
16. Operational Environmental Management Plan for the storage of manganese ore at the old power station in Swartkops
17. Sensitivity assessment of the area proposed for the 'N2 North Housing Project'.
18. Forest survey of Erf 11305 and 1948, Walmer to inform land use planning
19. Forest survey of an area proposed for sand mining on a Ptn of Remainder of Erf 1948, Walmer, Port Elizabeth
20. Forest survey of the Remainder Ptn 220 of Farm Mauritzkraal No. 501 at Gamtoos River Mouth

## **Management Plans**

1. Development of a Coastal Management plan for the Nelson Mandela Bay Municipality

## **Project/database management and training**

1. Support consultants to the Environmental Management Sub-directorate of the Nelson Mandela Bay Municipality
2. Training facilitator for the Groen Sebenza program in the Environmental Management section of the NMBM

## **Environmental Auditing**

### **Current Projects:**

1. Construction auditing of Pola Park Phase 1
2. Construction auditing of the Graaff-Reinet cemetery

### **Completed Projects:**

1. Environmental Audit for the Upgrading of a Stormwater Channel and Wetland in Blue Water Bay
2. Environmental Audit for the Construction of Kenton Eco-Estate and Associated Infrastructure on the Farm Remainder of Grants Valley 396, Kenton-on-Sea
3. St Francis Bay Marina Extension: Final Audit
4. Environmental auditing for the upgrading of the National Road 2, Section 9 between Witelsbos and Tsitsikamma
5. Environmental auditing of the construction of the Helenvale Thusong Centre in Port Elizabeth
6. Construction auditing of the upgrades to Kings Beach area (Phase 2)
7. Construction auditing of the extension to the industrial area in Graaff-Reinet
8. Construction auditing of the Aberdeen reservoir
9. Review of compliance of an operational sand mine in Theesecombe with conditions of the EMP
10. Environmental audit of the Robberg waste disposal facility in the Bitou Municipality

## **Water Use Applications**

### **Current Projects**

1. Water Use Licence application – Proposed expansion to the Mayfield WWTW
2. Water Use Licence application – Proposed expansion to the St Francis WWTW
3. General Authorisation application – Clearing alien vegetation for use as fuel in a mobile gasification plant (Uitenhage area)

### **Completed Projects**

1. Water Use Application for the proposed construction of a pipeline across a stream in Graaff-Reinet
2. Water Use Application for the upgrading of stormwater infrastructure that crosses a portion of the Klein Vis Rivier in Somerset East