



**Box 20057 Ashburton 3213 Pietermaritzburg
Telephone 033 326 1136 / 082 655 9077 / 082 529 3656
Facsimile 086 672 8557 thembeni@iafrica.com
Company registration number CK 94/022770/23
VAT registration number 4690238268**

**eThembeni provides advice and guidance concerning
heritage landscapes, places and activities,
particularly in the context of development**

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eThembeni Specialises in the Following Activities:

- Heritage Impact Assessments (HIAs) as required by the National Environmental Management Act 107 of 1998 as amended (NEMA), in compliance with Section 38 of the National Heritage Resources Act 25 of 1999 as amended (NHRA). Staff members are accredited to work throughout South Africa and will undertake work elsewhere in Africa. We identify heritage resources and recommend appropriate mitigation measures before development occurs. Although we do not undertake Palaeontological Impact Assessments we do refer clients to specialists in this field.
- Ancestral grave exhumation and reburial, including negotiation with families.
- Heritage resource management components of Strategic Development Plans and Environmental Management Frameworks.
- Excavation and management of archaeological sites.
- Preparation of nomination proposals to heritage authorities for the declaration of heritage resources as National and Provincial Heritage Landmarks, including the compilation of Integrated Site Management Plans.

We conduct all our activities within appropriate legal frameworks, to ensure that places and landscapes are managed both for their intrinsic qualities and for the benefit of future generations.

Selected Projects since 2010

– Heritage Impact Assessments

Project title	Client
Roads and bridges	
Mkhambathi road upgrade	Arcus GIBB
N3TC Route Location Initiative: Warden to Keeversfontein – De Beers Pass Section, Free State Province	Cave Klapwijk and Associates
N2 R56 interchange upgrade	Afzelia Environmental Consultants cc
Mhlatuze and Umlazi pedestrian bridges	Biotechnology & Environmental Specialist Consultancy cc
Vialiti Road Upgrades, Mthatha	WSP Environment & Energy
Cebisa Road upgrade, Tugela Ferry; Dalala Road upgrade, Nquthu; Emachobeni Road upgrade, Tugela Ferry; Fasile Road upgrade, Tugela Ferry; Hwanqana Road upgrade, Nquthu; Mmangaliso Road upgrade, Tugela Ferry; Nomalanga Road upgrade, Nquthu; Ntandoyomphakathi Road upgrade, Mangweni Falls; Buhayika Road upgrade, Tugela Ferry, KZN	GBS Environmental Consulting
Proposed N2–Mvezo Village link road and bridge, Eastern Cape	SSI
National Road 2 Section 26 from Mt Edgecombe Interchange to Tongaat Toll Plaza; Improvements to Umgeni Road Interchange on National Route 2, Section 25, KZN	Terratest (Pty) Ltd
Road Upgrade and Borrow Pits, Rehabilitation of N2 between Ngcweni River and Brookes Nek, Umzimvubu Local Municipality, Eastern Cape	Terreco (Pty) Ltd
Construction and Upgrading of Ingquza Hill to Mangwanini; Mpophomeni; and Matheko River to Msikaba AA Access Roads; Vialiti road upgrades, Mthatha, Eastern Cape	WSP Environment & Energy
Phophoma Pedestrian Bridge, Ulundi / Nongoma, KZN	ACER (Africa)
Trade Zone Watson Highway Link Road, La Mercy, KZN	Arcus GIBB
Power lines and substations	
Patensie Kareedouw, Idutywa Gatyana, Mafini Tombo, Melkspruit Riebeek, Ruigtevallei Dreunberg 132kV infrastructure	Arcus GIBB
Rosedale Libode 132kV infrastructure	Indwe Environmental Consulting
Mbongolwane-Sitilo 132kV Line, Kranskop-Sitilo 132kV Line Loop In Loop Out at Madungela Substation and Madungela Substation 132kV & Sitilo Substation 132kV Line Bay Establishment	iSineke Developments
Lady Frere Freemantle Substation, Eastern Cape	SHE Cape Environmental cc
Msinga Pomeroy 132kV Power line and Substation, KZN	Stemele Bosch Africa (Pty) Ltd
Venus-Sigma-Hector-(Ariadne) Transmission Line Project, KZN	ACER (Africa)

Dams, Water and Sewerage Supply Projects	
Bhekuzulu/Epangweni Community Water Supply Scheme, Enguga, Entshayabantu & Macksam Community Water Supply Scheme, Phase 4 (Swampu CWSS)	Terratest (Pty) Ltd
Kingsburgh sewer	Environmental Planning and Design
Veary/Jacaranda Road sewer	WSP Environment & Planning
Ozwothini bulk water supply	Ibhongo Consulting cc
Richmond Water Pipeline, Pure Water Rising Main from Mtubatuba Water Treatment Works to Mtubatuba Heights Reservoir, Construction of New Water Mains on the Western Shores and a Water Reservoir near St Lucia, Eastern Shores, Isimangaliso Wetland Park, KZN	ACER (Africa)
Mnini (Bonnyrigg) Interchange on National Route 2 Section 24 (Km 1.8), Ethekewini Metropolitan Municipality, KZN	Afzelia Environmental Consultants
Pholela Dam, Himeville, KZN	Pholela Irrigation Board
Sikoto Dam, Appelsbosch / Noodsberg, KZN	Alletson Ecologicals
Assagay Trunk Water Pipeline and Umdloti Waste Water Pipeline, La Mercy, KZN and Mount Ayliff - Ntsizwa Weirs Water Supply Scheme, Eastern Cape	Arcus GIBB
Edgebaston sewer reticulation, Westville, and Greater Vulamehlo Water Scheme: Bulk Water Supply Nkonka to KwaCele Reservoirs, Ugu District Municipality, KZN	Environmental Planning and Design
Sunhills Residential Development Sewerage Infrastructure, Tongaat, KZN	2G Environmental Management
King Williams Town Bulk Regional Sewage Scheme: Phases 2 - 7, and Ugie dam sites, Eastern Cape	Terreco (Pty) Ltd
Eshowe Bulk Water Supply Project, KZN	WSP Environment & Energy
Kwahlokholoko Regional Water Supply Scheme, uMlalazi Local Municipality, and Nkandla/Vutshini Regional Water Supply Scheme, Nkandla Local Municipality, KZN	E&D Consulting Services
Residential, commercial and mixed-use projects	
Expansion of Alumicor Facility, Pietermaritzburg	WSP Environment & Energy
Amber Lakes housing development	Terratest (Pty) Ltd
Felixton petrol filling station	SiVEST Environmental Division
Umgeni Business Park	Guy Nicolson Consulting cc
Gates residential development, Hilton Estate, KZN	Environmental Planning and Design
Car City Project, Camperdown, KZN	ACER (Africa)
Umlazi Uganda housing development, KZN	EThekweni Metropolitan Municipality
Tulele housing development, Shakaskraal, KZN	Indiflora cc
Glenwood North-East Sector Phase 2 housing development, Pietermaritzburg, KZN	JEC Environmental Services
Hull Valley housing development, Craigieburn; Ekwandeni housing development, Hammarsdale; Emapheleni housing development, Clermont, KZN	NDG-Africa
Msunduzi Waterfront Development, Pietermaritzburg, KZN	Ocean Spray Investments (Pty) Ltd
Izinga Phase 3 residential development and Lungisisa Indlela Village, Umhlanga; and Zimbali Lakes residential development, Ballito, KZN	SiVEST Environmental Division
Pennington retirement development, KZN	Gwala Gwala Development cc
Mpola Phase 3 housing development, Pinetown, KZN	SRK Consulting
Driefontein Gardens Estate development, Shakas Rock, KZN	Dewanig Investments cc
Groutville Priority 1 Phase 2 and Chris Hani residential developments, Darnall, KZN	KwaDukuza Municipality
Mbozamo residential development, Shakaville, KZN	Lady Brick Block Property Developers cc
Bhanoyi Country Estate, Rietvlei, KZN	Bhanoyi Property Holdings (Pty) Ltd
Amaotana housing development, Verulam, KZN	2G Environmental Management
Housing, commercial and industrial development, Ixopo, KZN	The Craigie Burn Land Trust
Ashburton housing development, Pietermaritzburg, KZN	Oro Management cc
Erf 783 Panorama Gardens, Pietermaritzburg, KZN	Terratest (Pty) Ltd
Compensation Flats Industrial and Business Park Development, Compensation; Inyaninga Mixed Use Development, Tongaat; and uShukela Highway Business and Office Park Development, Tongaat	Tongaathulett Developments
Mining and borrow pits	
Zulti South Mineral Lease Area	Richards Bay Mining
Aggregate mining on unregistered state land, AA 17 (Goso), Ngcobo Local Municipality, Eastern Cape	JP Mbete and Sons Trading and Projects cc
River sand mining on a Portion 10 of the Farm Rensburg No 797, Estcourt; Street Spirit Trading 54 (Pty) Ltd Colliery, Glencoe, KZN and DR08473, DR08111 and Ntinga borrow pit upgrades, Mbizana, Eastern Cape	Terratest (Pty) Ltd
River sand mining, Portion of Inanda Location No 4675, Pinetown Magisterial District, KZN	Inhlabathi Quarrying and Trading cc

Two borrow pits, Ugie, Eastern Cape	Terreco (Pty) Ltd
Ludeke Dam borrow pit and ancestral graves, Bizana, Eastern Cape	MBB Consulting Engineers
Mzimvubu sand mining, Port St Johns, Eastern Cape	Eco Law Projects cc t/a IDM Consultants
Other	
Heritage resource monitoring, Zulti South Mineral Lease Area	Richards Bay Mining
Richmond Cemetery Site	Arcus GIBB
Edendale Private Hospital, Pietermaritzburg, KZN	Edenvision Medical Holdings (Pty) Ltd
Estcourt and Nkandla Correctional Facilities, KZN	Vuka Planning Africa Inc
Rocky Brae broiler farm, Baynesfield, KZN	Ludloko Developments cc
SAPS shooting range, Ulundi, KZN	NDG-Africa
Makhathini Sugar Cane Project, KZN	Phatisa Equity (Pty) Ltd
Long-Haul Fibre Infrastructure Network, Gauteng, Mpumalanga, Free State and KZN	Netronix
Forensic science laboratory, Pinetown, KZN	SiVEST Environmental Division
Raymond's Airfield, Darnall, KZN	Robanting Services cc
Amajuba District Municipality cemetery sites; and Public cemetery, Newcastle, KZN	Udidi Project Development Company
Thukela Hydro Electric Power Scheme, KZN	ACER (Africa)
Transnet pipeline river crossing, uMvoti River, KZN	BKS (Pty) Ltd
Maphumulo Prison, KZN	Department of Public Works Pretoria

– **Ancestral graves management**

- Identification of 550 graves in Zulti South Mineral Lease Area and community negotiations for Richards Bay Mining
- Kwandengezi residential development, eThekweni Municipality for Aurecon
- Grave Mediation Process: Eagles Eyre Estate, Camperdown, KZN for Intense Heat Investments 30 (Pty) Ltd
- Graves and Burial Grounds Policy for Tongaat Hulett Developments, KZN

– **Archaeological site management**

- Archaeological augering and monitoring of Port Elizabeth hotel development for CEN Integrated Environmental Management Unit
- Heritage resources management at Catalina Bay picnic site, iSimangaliso Wetland Park World Heritage Site, KZN for ACER (Africa)
- eThekweni Metropolitan Municipality Electrical Network Master Plan: Heritage Resources Management, KZN for Eco Assessments
- Site opening, stabilization and closure, Sibudu Rock Shelter, Tongaat, KZN for Department of Archaeology, University of the Witwatersrand

– **Nomination for National Heritage Landmark status**

- Inanda Heritage Route development nodes for eThekweni Metropolitan Municipality

– **Heritage Resources Component of Environmental Management Framework**

- Mshwathi 'City' Development Node, KZN for Institute of Natural Resources
- Newcastle Municipality, KZN for Isibuko Se-Africa Development Planners

– **Specialist studies**

- Heritage Sensitivity Analysis of Durban Airport Site Expansion, KZN for ERM Southern Africa

eThembeni Staff Competencies

Len van Schalkwyk is accredited by the Cultural Resources Management section of the Association of South African Professional Archaeologists (ASAPA) to undertake Heritage Impact Assessments in South Africa. Len has a master's degree in archaeology (specialising in the history of early farmers in southern Africa) from the University of Cape Town and 25 years' experience in heritage management. He has worked on projects as diverse as the establishment of the Ondini Cultural Museum in Ulundi, the cultural management of Chobe National Park in Botswana, various archaeological excavations (notably the Iron Age site of Ndongondwane in the Thukela Valley) and oral history recording projects.

Len was part of the writing team that produced the KwaZulu-Natal Heritage Act 1997. He was the Provincial Representative on the South African World Heritage Convention Committee from 1998 to 2000, and from 1999 to 2000 he was the South African member of the International Scientific Committee for Archaeological Management, elected by the ICOMOS-SA Executive. He has worked with many rural communities to establish integrated heritage and land use plans and speaks good Zulu.

Len left his position as assistant director of Amafa aKwaZulu-Natali, the provincial heritage management authority, to start eThembeni in partnership with Elizabeth Wahl, who was head of archaeology at Amafa at the time. Over the past decade they have undertaken almost 1000 heritage impact assessments throughout South Africa, as well as in Mozambique.

Elizabeth Wahl has a BA Honours in African Studies from the University of Cape Town and has completed various Masters courses in Heritage and Tourism at the University of KwaZulu-Natal. She is currently studying for an MPhil in the Conservation of the Built Environment at UCT, and is also a member of ASAPA.

Elizabeth was an excavator and logistical coordinator for Glasgow University Archaeological Research Division's heritage programme at Isandlwana Battlefield; has undertaken numerous rock painting surveys in the uKhahlamba/Drakensberg Mountains, northern KwaZulu-Natal, the Cederberg and the Koue Bokkeveld in the Cape Province; and was the principal excavator of Scorpion Shelter in the Cape Province, and Lenjane and Crystal Shelters in KwaZulu-Natal.

Elizabeth compiled the first cultural landscape management plan for the Mnweni Valley, northern uKhahlamba/Drakensberg, and undertook an assessment of and made recommendations for heritage resource databases and organisational capacity in parts of Lesotho and South Africa for the Global Environment Facility of the World Bank for the Maloti Drakensberg Transfrontier Conservation and Development Area. She developed the first cultural heritage management plan for the uKhahlamba Drakensberg Park World Heritage Site, following UNESCO recommendations for rock art management in southern Africa.