

COMPANY PROFILE

Emanti Management (Pty) Ltd is an expanding broad-based Black Economic Empowerment (BEE) Water and Environmental Engineering specialist consultancy focused on assisting both the public and private sector to proactively manage environmental, health and safety risks in the drinking-water and wastewater arena. **Emanti Management (Pty) Ltd** consultancy services is a privately owned company with its head office in Stellenbosch (Western Cape). A regional office in Bisho (Eastern Cape) is also fully operational. **Emanti Management (Pty) Ltd** has been Nationally and Internationally recognised as Water and Environmental Engineering Specialists.



- In 2007/2008 **Emanti** became National Science and Technology Forum Award Winners.
- In 2008 - The International Water Association bestowed both the European and Global Project Innovation Award on **Emanti**.
- In 2008 – **Emanti** received the IMESA Project Excellence Award: “Drinking Water Quality System”.
- Emanti’s Municipal Strategic Self Assessment (MuSSA), developed for the Department of Water and Sanitation, has been recognised as International Best Practice in Municipal Business Health Assessment and Management at the Stockholm World Water Week 2010. The MuSSA was singled out as one of 14 international special initiatives by Stockholm World Water Week in 2011.

EMANTI’S VALUES

- Integrity
- Dependability
- Innovation
- Professionalism

EMANTI’S VISION

Emanti Management (Pty) Ltd aims to be the preferred partner in the application of water engineering and environmental management technologies for the improved utilisation, protection and management of Africa’s water resources, water services and the natural environment. Our philosophy is based on a commitment to always exceed customer expectations via our firm commitment to efficiency, excellence and innovation.

EMANTI’S MISSION

Emanti Management (Pty) Ltd aims to achieve the highest standards of water engineering and environmental management services by developing quality skills in our own people. As a young BEE oriented Water and Environmental Engineering Services Company, **Emanti Management (Pty) Ltd** is committed to the development, encouragement and empowerment of its personnel, in order that our collective mission of becoming the market leaders for environmental risk management is achieved.



EMANTI'S CORE SERVICE AREAS

1 MANAGEMENT OF WATER SERVICE DELIVERY

Emanti Management (Pty) Ltd has developed a well-recognised Best Practice specialist core service to support the delivery of Water Services by Local Government. The approach used is based on a Consultative Auditing process, in which **Emanti Management (Pty) Ltd** staff work with the client to design an appropriate water monitoring programme, collect water quality samples, interpret data against both legislated and operational efficiency requirements, carry out comprehensive Risk Profiles on water services systems, and act as honest brokers in assisting the Client with the necessary steps to manage the associated risks. The reporting and management guidance process is supported by the use of both, (i) easy to interpret summary assessments, and (ii) user-friendly Web-based database systems. This process ensures good environmental governance, proactively manages risks, and assists in achieving good cooperative governance in a financially sound manner.

2 CIVIL AND ENVIRONMENTAL ENGINEERING

Additional specialist civil and environmental engineering services include water treatment process engineering, liquid-waste management, corrosion mitigation, river health management and municipal infrastructure engineering. In particular, **Emanti Management (Pty) Ltd** are able to assist in the prioritisation and planning of infrastructural and capital expenditure requirements via project financing simulation techniques. An incremental cash flow approach is combined with risk and return methods to contrast competing alternatives and assist in guiding decision making, risk identification and risk management.

3 PROJECT MANAGEMENT AND MANAGEMENT CONSULTING

Emanti Management (Pty) Ltd have well developed project management and management consulting skills. **Emanti Management (Pty) Ltd** have very successfully project managed both public and private sector projects; and in particular specialise in managing diverse, specialist teams in South Africa and Internationally. For these purposes, **Emanti Management (Pty) Ltd** has developed novel internet based tools, including *inter alia* Issue Trackers, Communications Portals and Project Management tools.

4 MUNICIPAL SERVICES PERFORMANCE IMPROVEMENT

Emanti Management (Pty) Ltd supports all of its municipal services sector engagement with an underlying philosophy of seeking to guide Improved Performance and skills development. This includes (i) the development and use of carefully crafted Strategic Self Assessments (a business health check / gap analysis approach) which guide practitioner adherence to best practice, (ii) metric benchmarking techniques, using sector and internationally aligned Performance Indicators, and (iii) process benchmarking techniques, which harness peer based learning processes. A well-recognised track record of such exists, most notably across the Water and Sanitation, Waste Management, Electricity and Enterprise Development domains. (15 years of experience)

RECENT PROJECTS

Client	Project	Nature/description of work
World Health Organization(WHO)	GLAAS/International Reporting	To Support the Department of Water and Sanitation to ensure alignment of UN-Water Global Analysis and Assessment of Sanitation and Drinking (GLAAS) with other national and international reporting obligations and for the completion
Consulate of the Kingdom of Netherlands	Matching Dutch industrial water re-use solutions	Matchmaking process between Dutch industrial water re-use solutions with potential South African partners.
Water Research Commission	Water use and waste management	Country-wide shit flow diagram: Establishing National Excreta flows in South Africa
Water Research Commission	Application of appropriate technologies and tools	Social Franchising for operation and maintenance of school sanitation facilities and demonstration of on-site faecal sludge treatment in east London, Eastern Cape
Aurecon	Amathole District Municipality Governance/Institutional Re-alignment Steering Committee	Development of the Five Year Reliable Water & Sanitation Service Delivery implementation Plan situational assessment (1) Identify interventions required to address reliability (2) WSA approval and buy-in into process and structures (3) Establish five steering committees per WSA (4) Develop pipeline of projects (5) Monitor implementation compliancy (6) Develop annual audit report (7) Support to WSA until June 2020
WaterGroup-AHL Water Consortium	ERWAT Green Drop Mock Assessment	Development of a GD integrated management tool for ERWAT plans including site inspections, GDIP update, risk identification during plant visits.
International Water Association (IWA)	Flood and Drought Management Tool	Interpreting Climate Information for Utilities where data and information application is reviewed for relevant data sets for water utilities; guidance on interpretation and application of climate information for water utility planning and operation.
Athena Infonomics, India	FSM (Faecal Sludge Management)Toolbox	The Bill & Melinda Gates Foundation has taken significant strides in the development of the FSM Toolbox; a key challenge now to the long-term success of the FSM Toolbox – as faced with all technical tools – is facilitating the uptake and on-going use thereof. This is dependent on a number of factors including the nature of the actual tool (e.g. simplicity, ease of use), the knowledge and understanding of the tool by users (e.g. capacity, training needs), and the sector acceptance of the tool (e.g. advocacy, profiling).
GreenCape	GreenCape Non-Revenue Water Pilot Project	This project involves a Pre-Feasibility Assessment for Laingsburg Municipality to highlight the potential opportunities that running a NRW programme may have for the financial outcomes of the municipality.
Entsika-WaterGroup	Blue Drop System Management Monitoring Tool	Blue Drop is a process of sustainable improvement of water services delivery (water quality aspects) in Municipalities throughout South Africa.

Client	Project	Nature/description of work
Department of Water and Sanitation (DWS) National	National Water Services Monitoring, Evaluation and Reporting in Support of Master Planning and Institutional Realignment	Supporting the Master Planning process at a strategic level: (1) analyse and report on municipal vulnerability, utilizing the Municipal Strategic Self-Assessment (MuSSA) Tool (2) to oversee the development of all Municipal Priority Action Plans (MPAP's) (3) to ensure that the all Water Services Key Performance indicators, are aligned in WSA's and correctly reported on, taking cognisance of local, regional and international reporting obligations (4) to ensure accurate reporting nationally, sub-regionally, regionally, and internationally on Water Services performance (5) to develop selected topic based strategic perspectives relating to the state of Water services in South-Africa, 6) to determine Municipal Water Services Authority Institutional Health (7) to close the Municipal Water Services Authority Institutional Health Gap (8) and to determine National WSA Investment Requirement for Institutional Renewal.
G2Global Quality Management Systems (City of Cape Town)	Finalisation of the Reticulation Branch WSP	To finalise outstanding information for the City of Cape Town related to the Water Safety Plan for Reticulation and holding Management Workshops at Six Districts and Draft Final Water Safety Plans at Six Districts.
South African Local Government Association (SALGA) and Water Research Commission (WRC)	SALGA/WRC Municipal Benchmarking Initiative Electricity/Energy and Solid Waste Management	Improving the understanding of the current state of municipal electricity/energy and solid waste services in South Africa, including regulatory and legal requirements, key sector role-players and stakeholders, current practices and emerging best practices, typical indicators used to measure performance, and the status of data used to generate these performance indicators (PIs). Establishing a framework/roadmap to initiate municipal electricity/energy and solid waste services benchmarking, using lessons learnt from the Municipal Benchmarking Initiative (MBI) for water services.
Department of Water and Sanitation (DWS) National	MuSSA Provincial and CMA Engagements, Analysis and Associated Reporting	The profile of the MuSSA and associated MPAP has increased significantly over time, and the harnessing of the associated data and information has grown exponentially. This project addresses the opportunity to further increase the profile of the MuSSA and associated MPAP at the provincial level to major sector stakeholders and harness the MuSSA outputs to provide improved Business Intelligence and spark action at a WSA, Regional and National so as to create change within the municipal water services sector in South Africa. The project also addresses the opportunity to engage with Catchment Management Agencies (CMAs) and provide MuSSA related information in formats which are both accessible and useful to them in identifying current vulnerabilities that may impact on the CMA and thereby seek to address CMA current and future needs.
Department of Planning, Monitoring and Evaluation (DPME)	Municipal Performance Assessment Tool (LGMIM)	Develop and operationalise a Municipal Performance Assessment Tool (LGMIM) which allows determination of key municipal vulnerabilities related to (1) integrated development planning, (2) service delivery, (3) human resource management, (4) financial management, (5) community engagement, and (6) governance. The LGMIM system has undergone an extensive and intensive testing and refinement process, and was successfully deployed to DPME's production server in late September 2016. Emanti will continue to support DPME and the LGMIM by addressing noted queries and/or new developments / enhancements to the benefits of municipal users.
The International Water Association (IWA)	Audits on the Water Safety Planning Activities for Three East African Utilities	Audits on the WSP implementation activities of the East African Utilities. This included (1) a review of current water and wastewater management practices and associated documentation (proof of implementation), (2) a site assessment of raw water source, water treatment facilities, reservoirs and distribution network, (3) interviews/discussions with top management and departments within the utility (including planning, finance, customer care, IT, asset management, operations, human resources, risk management and audit) to obtain necessary buy-in, (4) conducting an opening meeting to convey the audit methodology and introduce the teams, and a closing meeting to discuss draft audit findings, and (5) develop an audit report and associated management letter per utility.
Ministry of Water and Environment, Uganda	Consultancy services for the development of a National Framework for Water Quality Management and Regulation in Uganda	Development of a national framework for water quality management and regulation in Uganda. In particular, Emanti is responsible for developing a Water Safety and Security Planning (WSSP) Framework, including the development of a WSSP Manual for Water Utilities in Uganda, and providing recommendations for the design of an electronic water quality management system.
South African Local Government Association (SALGA) and Water Research Commission (WRC)	Promote and improve Water Service Authority/Provider Performance and Identification of Good Practices through Benchmarking	Emanti Management have been the lead project team members for the SALGA led and WRC supported Municipal Benchmarking Initiative (MBI) for Water and Sanitation Services, regarded as a proven and emerging means towards enhancement of front line services delivery through water services performance improvement. A project extension, funded by the Tirelo Boshia grant, ran from 1 September 2016 to 30th June 2018. Specific objectives included (i) Extending the current MBI Munibench web-based tool (www.munibench.co.za), in a manner to benefit of all 152 WSAs, SALGA and key sector partners including DWS and NT (metric benchmarking); (ii) Extending and further developing the peer based municipal interaction and performance improvement oriented learning processes – (process benchmarking); (iii) Supporting the furthering of alignment between the MBI and key sector partner DWS, and the ongoing alignment between DWS and CoGTA re B2B, to the benefit of WSAs and sector partners.
City of Cape Town	Development and implementation of the Main laying and Conveyance Water Safety plan.	This project follows on from the successful development and implementation of Water Safety Plans for Steenbras Water Scheme and Faure Bulk Water Schemes. It involves developing Water Safety Plans for the main laying and conveyance schemes controlled by City of Cape Town. The complexities of the City's management and infrastructure requires a more intensified approach to ensure that all relevant linkages to other risk management is also taken into account.
SALGA (Western Cape)	Development of Wastewater Risk Abatement Plans and Water Safety Plans	Developing and preparation of Wastewater Risk Abatement Plans for municipalities of Bergrivier Local Municipality (WC) and Cape Agulhas Local Municipality (WC), including capacity building of the municipalities and SALGA. Developing and preparation of Water Safety Plans for the municipalities of Hessequa and Kannaland, including necessary interactions and assessments with the Water Board (Overberg Water) that supplies bulk water to 3 Hessequa systems (i.e. 3 of the 11 Hessequa systems).

THE TEAM

The specific skills of the study team are abbreviated as follows below.

- **Grant Mackintosh**

Managing Director

(Qualifications: B.Sc. (Civil Engineering), Post Graduate Diploma (Engineering), M.Sc. (Engineering) from the University of Cape Town; MBA (Cum Laude) from the University of Stellenbosch)

Grant is a specialist Water Utilisation Engineer in non-metro water services, water quality management, water treatment, capacity development, and regulatory governance and cooperative government. Grant is both a nationally and internationally recognised specialist in the non-metro water services arena.

- **Philip de Souza, Pr Eng**

Water Utilisation Engineer

(Qualifications: B.Sc. (Chemical Engineering) from the University of Cape Town; Honours in Water Utilisation from the University of Pretoria)

Philip is a specialist Water Utilisation Engineer in non-metro water services, water quality management and water treatment. He has also overseen the development and implementation of other national web-based systems including the municipal benchmarking system (Munibench), the vulnerability and risk management system (RiskQ), and the Local Government Management Improvement Model (LGMIM).

- **Shawn Moorgas**

Civil Engineering Technologist

(Qualifications: ND (Civil Engineering) (T1, T2, T3), NHD (Civil Engineering) (T4) with Distinction from the Cape Peninsula Technikon)

Shawn brings extensive technical municipal skills to the team. Having operated as a chief engineer within local government for 11 years, his unique understanding of the municipal environment has enabled him to provide technical support and appropriate turnaround interventions to municipalities in their efforts to achieve effective and sustainable water services management.

- **Mziwabantu Ramba**

Rural Water Services Specialist

Mziwabantu is a rural water services specialist with more than 30 years of experience in rural water services provision, and related capacity development.

- **Gregory Bailey**

Field Technician

Gregory is a specialised water field technician.

- **Unathi Jack**

Chemical Engineering Technologist

(Qualifications: ND (Chemical Engineering), B. Tech (Chemical Engineering), M. Tech (Chemical Engineering) from Cape Peninsula Technikon)

Unathi is a chemical engineering technologist with experience in non-metro water quality management.

- **Thabisa Manxodidi**

Chemical Engineering Technologist

(Qualifications: ND (Chemical Engineering), B Tech (Chemical Engineering) from the Cape Peninsula Technikon; B Eng Honours in Water Utilisation from the University of Pretoria)

Thabisa is a specialist Water Utilisation Engineer with experience in non-metro water quality management.

- **Matthew Damons**

Environmental and Water Science

(Qualifications: : MSc Environmental and Water Science, University of the Western Cape (UWC))

Matthew has been incorporated into Emanti through the WWF-SA Learnership Programme. He successfully completed his Masters in Environmental Science through UWC.

- **Chenène Nel & Franka Humphreys**

Administration Staff

Forming the backbone of the day to day operation of the Emanti Management (Pty) Ltd, Chenène and Franka work as a well refined team with 15 years combined experienced in office administration

EMPOWERMENT PROFILE

- HDI Profile: **Emanti Management (Pty) Ltd** has a staffing component of 10 people, with a Historically Disadvantaged Individuals (HDI) profile of 83%, a gender profile of 33% female and physically disabled profile of 8%.
- HDI Equity: **Emanti Management (Pty) Ltd** is a black empowered SMME (>25% HDI ownership). Black equity holding in Emanti Management (Pty) Ltd is 41%, with the following shareholders:
 - Mziwabantu Ramba (black male) – Chairman & Director
 - Grant Mackintosh (white male) – Managing Director
 - Shawn Moorgas (black male) – Civil Engineering Technologist & Director
 - Philip de Souza (white male) – Professional Engineer & Director
 - Thabisa Manxodidi (black female) – Chemical Engineering Technologist
 - Unathi Jack (black female) – Chemical Engineering Technologist
 - Gregory Bailey (black male) – Field Technician



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Value Adding Procurement Recognition 125%