



Curriculum Vitae

Humayrah Bassa

Transport & Planning

Associate: Environmental Science

humayrah.bassa@rhdhv.com

T: 0873506760

M: 0836427077

Humayrah Bassa is an Environmental Scientist and holds a Bachelor of Science Degree majoring in Geography and Environmental Management. She also holds an Honours Degree (summa cum laude) in Environmental Science as well as a Masters Degree in Environmental Science. Humayrah is an accomplished researcher and has a wide range of research experience in the fields of Sustainable Environmental Management, with particular focus areas being sustainable environmental planning and development, environmental assessment, natural resource and land management and the applications of GIS. She has gained experience as an environmental consultant and project manager within Royal HaskoningDHV working on a wide range of projects. Her primary skills include screening assessments; Environmental Impact Assessments (EIAs), Water Use License Applications (WULAs), Social Impact Assessments (SIAs); Public Participation; developing and implementing Environmental Management Plans (EMP's); and acting as an environmental control officer (ECO).

Degree

2010 MSc Environmental Science, University of KwaZulu-Natal, South Africa

2008 BSc (Hons) Environmental Science, University of KwaZulu-Natal, South Africa

2007 BSc Geography and Environmental, University of KwaZulu-Natal, South Africa

Nationality

South African

Years of experience

8

Years with Royal HaskoningDHV

6

Professional memberships

SA Council for Natural Scientific Professions, Professional Natural Scientist, 400032/15

IAIAsa

Professional experience

Mozambique Border Wall Project, South Africa

Start Date: 2016

Client Name: Kwa-Zulu Natal Department of Transport

Project Value: R60 000

Position: Environmental Scientist

Assigned Tasks: Environmental Screening Investigation to inform the design and identify fatal flaws.

White Mfolozi Bridge & Link Road, South Africa

Start Date: 2016

Client Name: Kwa-Zulu Natal Department of Transport

Project Value: R400 000

Position: Environmental Scientist

Assigned Tasks: Review and project management of the Basic Assessment Study and Water Use Licence Application

Swaziland-Mozambique Border Patrol Road BA & WULA

Start Date: 2016

Client Name: Department of Public Works

Project Value: R2 000 000

Position: Environmental Scientist

Assigned Tasks: Review and project management of the Water Use Licence Application.

Upgrade to P236, South Africa

Start Date: 2016

Client Name: Kwa-Zulu Natal Department of Transport

Project Value: R350 000

Position: Environmental Scientist

Assigned Tasks: Review and project management of the Water Use Licence Application and review of the Basic Assessment Study in support of the necessary Environmental Authorisations and permits.

Mfolozi Bridge & Link Road, South Africa

Start Date: 2016

Client Name: Kwa-Zulu Natal Department of Transport

Project Value: R400 000

Position: Environmental Scientist

Assigned Tasks: Review and project management of the Water Use Licence Application and review of the Basic Assessment Study in support of the necessary Environmental Authorisations and permits.

Cornubia Mall ECO, South Africa

Start Date: 2016

Client Name: Investec

Project Value: R250 000

Position: Project Manager

Assigned Tasks: Project management and review of monthly Environmental Control Officer audits and reporting.

Bulk waterline form the Waterloo Reservoir to the Sibaya Precinct, South Africa

Start Date: 2016

Client Name: Tongaat Hulett Developments

Project Value: R400 000

Position: Environmental Scientist

Assigned Tasks: Compilation and project management of the Basic Assessment study and review of monthly ECO reports post-authorisation.

Tinley Beach Enhancement EIA, South Africa

Start Date: 2015

Client Name: Tongaat Hulett Developments

Project Value: R950 000

Position: Project Manager, Environmental Scientist

Assigned Tasks: Project management and execution of the Environmental Impact Assessment Study and Public Participation Process including compilation of all necessary documents.

Lindokuhle Strategic Support, South Africa

Start Date: 2015

Client Name: Tongaat Hulett Developments

Project Value: R75 000

Position: Project Manager, Environmental Scientist

Assigned Tasks: On-going support and advice with relation to environmental permitting requirements for the Lindokuhle Emergency Housing Relocation Development, including interpretation queries and applications for exclusions from further assessments.

Strategic Support for Water Use Authorisations and Queries, South Africa

Start Date: 2015

Client Name: Tongaat Hulett Developments

Project Value: R500 000

Position: Project Manager, Environmental Scientist

Assigned Tasks: On-going support and advice with relation to water use authorisations to Tongaat Hulett Developments including compilation and project management of the Integrated Water Use Licence Application for the Cornubia Mixed-Use Phased Development, Phase 2.

Sundumbili Wastewater Treatment Works, South Africa

Start Date: 2015

Client Name: Ilembe Municipality

Project Value: R2 000 000

Position: Environmental Scientist

Assigned Tasks: Environmental Screening and input into Feasibility Study.

Bhudlu Access Road and Bridge, South Africa

Start Date: 2015

Client Name: Umuziwabantu Local Municipality

Project Value: R876 992

Position: Environmental Scientist

Assigned Tasks: Review and project management of the Basic Assessment Study, Public Participation Process, Environmental Management Programme and Water Use Licence Application in support of the necessary Environmental Authorisations and permits.

Emergency Nondabula Water Reticulation Project, South Africa

Start Date: 2015

Client Name: Ilembe Municipality

Project Value: R2 000 000

Position: Environmental Scientist

Assigned Tasks: Review and project management of the Basic Assessment Study, Public Participation Process, Environmental Management Programme and Water Use Licence Application in support of the necessary Environmental Authorisations and permits.

R102 Upgrades, South Africa

Start Date: 2015

Client Name: Department of Transport

Project Value: R1 000 000

Position: Environmental Scientist

Assigned Tasks: Review and project management of the Basic Assessment Study, Public Participation Process, Environmental Management Programme and Water Use Licence Application in support of the necessary Environmental Authorisations and permits.

Water Use Licence Application for the IRPTN C9, South Africa

Start Date: 2015

Client Name: eThekweni Transport Authority

Project Value: R400 000

Position: Environmental Scientist

Assigned Tasks: Compilation and project management of the Water Use Licence Application for the Integrated Rapid Public Transport Network, Corridor 9.

Integrated Water Use Licence Application for the Sibaya Development, South Africa

Start Date: 2014

Client Name: Tongaat Hulett Developments

Project Value: R300 000

Position: Environmental Scientist

Assigned Tasks: Compilation and project management of the Water Use Licence Application for the Sibaya Development, Nodes 1 & 5 including Bulk Service Infrastructure connecting other Nodes.

Cornubia Retail Park ECO, South Africa

Start Date: 2014

Client Name: Tongaat Hulett Developments

Project Value: R469 540

Position: Project Manager

Assigned Tasks: Project management and review of monthly Environmental Control Officer audits and reporting.

Eastbury Sewer BA and WULA, South Africa

Start Date: 2014

Client Name: Tongaat Hulett Developments

Project Value: R126 383

Position: Project Manager, Environmental Scientist

Assigned Tasks: Review and project management of the Basic Assessment Study, Public Participation Process, Environmental Management Programme and Water Use

Licence Application in support of the necessary Environmental Authorisations and permits.

Tugela River Bridge at Tugela Ferry

Start Date: 2014

Client Name: Department of Transport

Project Value: R10 000 000

Position: Environmental Scientist

Assigned Tasks: Review and management of reports produced by an external Environmental Assessment Practitioner.

Integrated Water Use Licence Application for the Dube TradePort AgriZone, South Africa

Start Date: 2014

Client Name: Dube TradePort Corporation

Project Value: R319 838

Position: Environmental Scientist

Assigned Tasks: Assistance with the Water Use Licence application.

P125 Road Upgrade, South Africa

Start Date: 2014

Client Name: Department of Transport

Project Value: R3 300 000

Position: Environmental Scientist

Assigned Tasks: Review and management of reports produced by an external Environmental Assessment Practitioner.

Cornubia N2 Interchange, South Africa

Start Date: 2014

Client Name: Tongaat Hulett Developments

Project Value: R100 000

Position: Project Manager, Environmental Scientist

Assigned Tasks: Revision of the Environmental Management Programme, Application to Amend the Environmental Authorisation, Water Use Licence Application and review of monthly Environmental Control Officer reports.

MSW and Benefication Opportunities Feasibility Study for Nelson Mandela Bay Municipality, South Africa

Start Date: 2014

Client Name: Eskom Holdings

Project Value: R2 500 000

Position: Environmental Scientist

Assigned Tasks: Environmental Screening Investigation to identify fatal flaws, advise on site selection and environmental permitting requirements.

Integrated Water Use Licence Application for the Cornubia Retail Park, South Africa

Start Date: 2013

Client Name: Tongaat Hulett Developments

Project Value: R171 000

Position: Environmental Scientist

Assigned Tasks: Compilation and project management of the Water Use Licence Application for the Cornubia Retail Park Development.

Detailed Planning and Investigation for the Ndwedwe Bulk Water Supply Scheme, South Africa

Start Date: 2013

Client Name: Umgeni Water

Project Value: R3 000 000

Position: Environmental Scientist

Assigned Tasks: Environmental Screening Investigation to identify fatal flaws, advise on site selection and environmental permitting requirements.

Ntatahshana Road Upgrade, South Africa

Start Date: 2013

Client Name: PGA Consulting

Project Value: R300 000

Position: Project Manager, Environmental Scientist

Assigned Tasks: Review and project management of the Basic Assessment Study, Public Participation Process, Environmental Management Programme and Water Use Licence Application in support of the necessary Environmental Authorisations and permits.

SuperGroup Upgrade at Sprite Road Basic Assessment, South Africa

Start Date: 2012

Client Name: Super Group Trading (Pty) Ltd

Project Value: R114 000

Position: Project Manager, Environmental Scientist

Assigned Tasks: Project Management and Compilation of the Basic Assessment Study, Public Participation Process, and

Environmental Management Programme in support of the necessary Environmental Authorisations and permits.

Basic Assessment for the proposed eGoli Water Supply in KZN, South Africa

Start Date: 2012

Client Name: Mafahleni Engineers and Project Managers

Project Value: R151 453

Position: Project Manager, Environmental Scientist

Assigned Tasks: Project Management and Compilation of the Basic Assessment Study, Public Participation Process and Environmental Management Programme in support of the necessary Environmental Authorisations and permits.

Canelands Extension BA & WULA, South Africa

Start Date: 2012

Client Name: Tongaat Hulett Developments

Project Value: R400 000

Position: Environmental Scientist

Assigned Tasks: Review and project management of the Water Use Licence Application and amendment of the Basic Assessment Study in support of the necessary Environmental Authorisations and permits.

Coastal - Permit Amendment application for marine effluent Disposal Pipeline, South Africa

Start Date: 2012

Client Name: Mhlathuze Water

Project Value: R133 540

Position: Environmental Scientist

Assigned Tasks: Assist with the compilation and submission of application for Mhlathuze Water Effluent Disposal Licence review.

Mahogany Ridge Interchange Environmental Impact Assessment and Basic Assessment, South Africa

Start Date: 2012

Client Name: Hatch Africa (Pty) Ltd

Project Value: R875 000

Position: Environmental Scientist

Assigned Tasks: Assist with the compilation of the Basic Assessment Study.

Cornubia Industrial and Business Estate Environmental Control Officer (ECO) - Phase 1, South Africa

Start Date: 2012

Client Name: Tongaat Hulett Developments

Project Value: R450 000

Position: Project Manager, ECO

Assigned Tasks: Responsible for undertaking monthly site audits and audit reports as well as audit checklists. Further responsibilities include attendance at site meetings and regular liaison with the project team – engineers, contractors and client.

Environmental Impact Assessment for the Cornubia Phase 2 Development, South Africa

Start Date: 2012

Client Name: Tongaat Hulett Developments

Project Value: R989 660

Position: Project Manager, Environmental Scientist

Assigned Tasks: Compiling the Scoping and Environment Impact Assessment (EIA) report and Environmental Management Programme, assisting with the Public Participation Process, GIS Mapping. Project Management.

Cornubia Retail Park - EIA, South Africa

Start Date: 2012

Client Name: Tongaat Hulett Developments

Project Value: R370 120

Position: Project Manager, Environmental Scientist

Assigned Tasks: Responsible for the management of the Environmental Impact Assessment (EIA) and Public Participation Processes (PPP). This includes attendance at client progress meetings and providing environmental input into the planning of the proposed Retail Development. Further responsibilities include compilation of all project documentation and management and compilation of the Water Use Licence Application and Waste Management Licence Application.

Environmental Impact Assessment (EIA) for a 75MW Photovoltaic Plant, South Africa

Start Date: 2011

Client Name: Basekhu Capital

Project Value: R875 961

Position: Environmentalist

Assigned Tasks: Responsible for compiling the baseline social impact assessment specialist report.

THD Tinley Manor Environmental Impact Assessment, South Africa

Start Date: 2011

Client Name: Tongaat Hulett Developments

Project Value: R650 000

Position: Project Manager, Environmental Scientist

Assigned Tasks: Responsible for the management of the Environmental Impact Assessment (EIA) and Public Participation Processes (PPP) as well as the Water Use Licence Application (WULA). This includes attendance at client progress meetings and providing environmental input into the planning of the proposed Development. Further responsibilities include compilation of all project documentation and project management.

Umnini Lodge, Cultural Village & Conference Centre BA, South Africa

Start Date: 2011

Client Name: KwaZulu-Natal Department of Arts & Culture

Project Value: R120 000

Position: Environmentalist

Assigned Tasks: Responsible for undertaking the Basic Assessment Process and the public participation process as well as compilation of the Environmental Management Programme for the above project.

BP Preparation for Umzimvubu Ward 6, South Africa

Start Date: 2011

Client Name: Alfred Nzo District Municipality

Project Value: R200 000

The compilation of Business plans for Ward G of uMzimvubu in Alfred Nzo District Municipality.

Position: Environmentalist

Assigned Tasks: Responsible for undertaking a preliminary environmental screening investigation; compiling an environmental screening report and recommending specialists for the detailed environmental feasibility study. Further responsibilities included the management of specialists, compilation of detailed environmental feasibility study report and GIS mapping.

Impendle Bulk Water Supply Investigation, South Africa

Start Date: 2011

Client Name: uMgungundlovu District Municipality

Project Value: R150 000

Position: Environmentalist

Assigned Tasks: Responsible for managing the Water Resource Management Team responsible for the compilation of the Water Use Licence Application and Water Conservation and Demand Management Plan and compilation of project documentation.

MCA Lesotho Health Clinic ECO, Lesotho

Start Date: 2010

Client Name: TBWB JV

Project Value: R4 500 000

Position: Environmentalist

Assigned Tasks: Assisting with rehabilitation plans; water quality reports and other relevant technical input.

Ballito Compensation EIA, South Africa

Start Date: 2009

Client Name: Tongaat Hulett Developments

Project Value: R498 033

Position: Project Manager, Environmentalist

Assigned Tasks: Conducting the water use licence application process including compilation of all DWA application forms and technical report. Further responsible for the management of the project.

EIA for the Cornubia Mixed Use Phased Development, Mount Edgecombe, South Africa

Start Date: 2008

Client Name: Tongaat Hulett Properties Ltd

Project Value: R1 363 409

Position: Environmentalist

Assigned Tasks: Environmental and Public Participation Consultant providing technical input into the processes and responsible for the compilation and management of the water use licence application. Further responsible for the compilation of the Amendment to the Environmental Authorisation.

Qualifications

2008-2009

University of KwaZulu-Natal

Post-graduate Research Assistance / Student Demonstrator and Tutor. This included research towards her MSc Dissertation as well as research assistance towards larger projects such as the Gender, Land and Asset Survey for the International Centre for Research on Woman.

School and Diploma or certificate

2008-2010

University of KwaZulu-Natal and International Centre for Research on Woman.



Curriculum Vitae

Bronwen Griffiths

Transport & Planning
Environmental Scientist

bronwen.griffiths@rhdhv.com

T: +27 (0)21 936 7600

M: +27 (0)83 414 8551

Bronwen has operated across a range of sectors within the environmental field, dominantly environmental permitting and related processes, functioning as a project manager, and provision of ecological specialist knowledge. She is a trained ecologist and registered Professional Natural Scientist: Environmental Science. Bronwen has been a Senior Environmental Consultant for 4 years, as regional environmental representative. Previously she was a Chief Environmental Scientist at BKS/AECOM (2012). The preceding 12 years she ran her own consultancy, including acting as an Environmental Manager for the City of Johannesburg. She also served for some months as Acting Assistant Director at Gauteng Department of Agriculture & Rural Development (GDARD), reviewing environmental impact assessments (EIA) and approving outgoing reports. Her career began as environmental officer reviewing environmental documentation at GDARD. Bronwen has dealt with a range of environmental projects, from feasibility, to various EIA processes, to environmental management post-authorisation. She functions as environmental assessment practitioner and project manager for environmental project teams. Bronwen is author/co-author on various environmental guideline documents (DEA, GDARD, CoJ).

Degree

MSc Quantitative Conservation Biology

Nationality

South African

Years of experience

18

Years with Royal HaskoningDHV

4

Professional memberships

- SA Council for Natural Scientific Professions: Environmental Scientist
- International Association for Impact Assessment, South African Affiliate
- Botanical Society of South Africa

Special skills

- Environmental Scientist
- Environmental Manager / Management
- Environmental Screening, Feasibility, Impact Assessment
- Risk Avoidance
- Environmental Compliance
- Ecologist

Professional experience

Conduct Feasibility / Screening for Emergency Nhlabane Estuary to Mine Pumping Scheme, Richards Bay, South Africa

Start Date: 2016

Client Name: Richards Bay Minerals (Rio Tinto)

Project Value: R382,346.00

Provide professional input on requirements and gap analysis of processes required to allow for emergency water transfer so as to keep the refinery associated with the mine operational.

Position: Environmentalist

Assigned Tasks: Environmental input, lead environmental document author.

Conduct Pre-Feasibility (FEL-2) Waterberg Heavy Haul Line, South Africa

Start Date: 2015

Client Name: Transnet SOC Ltd

Project Value: R3,728,577.69

Provide professional railway planning and engineering services for the FEL-2 study of the Waterberg Heavy Haul Line.

Position: Environmentalist

Assigned Tasks: Environmental input, lead environmental document author.

Environmental Input for the Western Cape Gravel Roads Project – Winelands District, South Africa

Start Date: 2015 – 2020 (5 year project)

Client Name: Cape Winelands District Municipality

Project Value: R10,000,000.00

Appointment to assist the Western Cape Department of Transport & Public Works to address the need to address the maintenance process for the province's existing gravel roads – from a planning, strategic, permitting and forwarding looking point of view. Specifically employed to consider the Winelands District area.

Position: Project Manager

Assigned Tasks: Project manager, and environmental specialist lead

Dube TradePort SOER, South Africa

Start Date: 2014, 2015

Client Name: Dube TradePort

Project Value: R 500,000.00

Dube TradePort State of Environment Report 2014 – generation and reporting. Repeat for 2015/16 report iteration.

Position: Environmentalist

Assistance with drafting of various chapters. Review of document.

PRASA EThekweni Rail Corridors, Durban, South Africa

Start Date: 2012

Client Name: Passenger Rail Agency of South Africa

Project Value: R 1,257,000.00

Pre-feasibility study for the proposed Rail Corridor in the Northern Durban Development Corridor.

Position: Environmentalist

Assigned tasks: Generation of the final Environmental Screening document to provide environmental feasibility considerations and permitting guidelines.

Two Rivers Urban Park (TRUP) Project, Cape Town, South Africa

Start Date: 2015

Client Name: Western Cape Department of Transport and Public Works, and, City of Cape Town Municipality (sub-contracting to NM & Associates as planning leads)

Project Value: R3 408 000.00 (RHDHV portion)

Re-imagining of the site and completion of an appropriate development framework. A contentious site for a number of years due to varying interests of property owners and flooding of the site. Aims to develop an innovative and sustainable development alternative, acting as a gateway to the City of Cape Town, whilst restoring and rejuvenating the urban form, and enhancing the natural environment.

Position: Environmentalist

Assigned Tasks: Lead Environmental Assessment Practitioner, Environmental Advisor to team.

IRT Phase 1B feeder Services, South Africa

Start Date: 2014

Client Name: City of Cape Town Municipality

Project Value: R9,133,440.00

The design and construction of Cape Town's Bus Rapid Transit Feeder System, Phase 1B extending from Cape Town CBD, Salt River, Maitland, Summer Greens, Edgemoed, Bothasig and Richwood. This included the design of a Closed Feeder Station and Non-Motorised Transport routes, civil and electrical services as well as a Pedestrian Bridge and the extension of the Stable's Depot.

Position: Environmentalist

Assigned Tasks: Environmental input

Central University Technicon Campus upgrades (as part of the Audio Visual Installation for various new buildings), South Africa

Start Date: 2014

Client Name: Ingerop Africa

Project Value: R1,183,060.52

Redevelopment of portions of the Bloemfontein and Welkom campuses.

Position: Environmentalist

Assigned Tasks: Role was extended, as detailed above, to inform Ingerop team as to environmental constraints, and the development of a construction-specific environmental management programme (EMPr) per campus.

State of Environment Report (SOER) for City of Johannesburg, South Africa

Start Date: 2014

Client Name: SA Cities Network

Project Value: R1,400,000.00

State of Environment Reports (SoER) are important for comparing the environmental conditions in a particular geographical area through the use of environmental indicators. These indicators describe the condition of the environment which directs the environmental outlook and options for action.

Position: Environmentalist

Assigned Tasks: Chapter author and reviewer

EIA for Caledon Bulk Sewer, South Africa

Start Date: 2014

Client Name: Theewaterskloof Municipality

Project Value: R5,527,750.12

Obtain environmental impact assessment (EIA) authorisation and water use licence application (WULA) and ensure compliance with specific conditions during construction,

Position: Environmentalist

Assigned Tasks: Primary reviewer of all documentation. Sign-off of documentation as EAP for project. Lead Environmental Assessment Practitioner, oversight of WULA.

Feasibility study for Municipal Solid Waste and Beneficiation Opportunities Feasibility Study for Nelson Mandela Bay Municipality, South Africa

Start Date: 2014

Client Name: Eskom Holdings SOC Ltd

Project Value: R2,488,000.00

Provision of a Feasibility Study on Municipal Solid Waste Diversion and Beneficiation Opportunities at NMBMM.

Position: Environmentalist

Assigned Tasks: Generation of an environmental screening investigation document. Collation of final document for team.

Environmental Advice - Elandsfontein Phosphate Mine Access Road (Phase 1), South Africa

Start Date: 2014

Client Name: Elandsfontein Exploration and Mining (Pty) Ltd

Project Value: R3,602,400.00

Design and construction of 14 kilometres of the Elandsfontein mine access road.

Position: Environmentalist

Assigned Tasks: Environmentalist Input

EIA and WML for the Southern WWTW Upgrades, South Africa

Start Date: 2013

Client Name: AECOM SA (Pty) Ltd

Project Value: R1,675,742.15

Assist eThekweni Municipality in applying for a Coastal Waters Discharge Permit for the Southern Wastewater Treatment Works sea outfall pipeline.

Position: Environmentalist

Assigned Tasks: Primary reviewer of all documentation. Sign-off of documentation as EAP for project.

Kongoni Mine Bankable Feasibility Study Update, South Africa

Start Date: 2013

Client Name: Turgis Consulting (Pty) Ltd

Project Value: R60,418.82

Bankable feasibility study for Kongoni mine, Hotazel

Position: Project Manager

Assigned Tasks: Editing and collation of information for final bankable feasibility study – environmental chapter

EIA supervision – New 5MI Reservoir at Louville, South Africa

Start Date: 2013

Client Name: Municipality of Saldanha Bay

Project Value: R7,580,000.00

The construction of a new 5 MI potable water reservoir for Louville area to increase the existing storage capability (refer to GLS report). The work entails: Design, compilation of tender documents, drawings, financial management, quality control and contract management for the construction of the new reservoir.

Position: Environmentalist

Assigned Tasks: Development of terms of reference for independent EIA practitioners, Environmental process project manager – oversight of EIA process, Review and finalisation of specialist biodiversity study, Liaison with external consultant, Technical environmental input into design

EIA supervision - New 5MI Reservoir at Saldanha, South Africa

Start Date: 2013

Client Name: Municipality of Saldanha Bay

Project Value: R9,450,000.00

The construction of a new 5 MI potable water reservoir for Louville area to increase the existing storage capability (refer to GLS report). The work entails: Design, compilation of tender documents, drawings, financial management, quality control and contract management for the construction of the new reservoir.

Position: Environmentalist

Assigned Tasks: Development of terms of reference for independent EIA practitioners, Environmental process project manager – oversight of EIA process, Review and finalisation of specialist biodiversity study, Liaison with external consultant, Technical environmental input into design

ECO at Imizamo Yethu Sports Complex, South Africa

Start Date: 2013

Client Name: City of Cape Town Municipality

Project Value: R70,576.00

ECO at Imizamo Yethu Sports Complex

Position: Project Principal

Assigned Tasks: Client liaison, quality control and review of ECO reports

Basic Assessment - CoCT Waste Sites, South Africa

Start Date: 2013

Client Name: City of Cape Town Municipality

Project Value: R337,795.00

EIA processes for a pair of proposed waste drop-off sites to enhance and facilitate waste separation and recycling within regions of the City.

Position: Project Principal

Assigned Tasks: Internal review of all project documentation prior to this being submitting to the Client for review and comment. Formal sign off on all documentation as EAP.

Pretoria West & Rooiwal Power Stations Investigations for City of Tshwane, South Africa

Start Date: 2013

Client Name: Tsholetso Projects

Project Value: R4,931,100.00

The City of Tshwane owns and operates two coal fired power stations called Rooiwal and Pretoria West respectively. These stations currently operate well below their design ratings and experience low levels of availability.

The Council has consequently initiated a process to return these stations to financially viable income generating assets and is considering various technical as well as legal / ownership models to achieve this.

Position: Environmentalist

Assigned Tasks: Generation of environmental screening investigation for both sites. Environmental advisor.

Environmental and Social Impact Study (ESIA) for Envalor Lda in Mozambique, Mozambique

Start Date: 2011

Client Name: Envalor Lda

Project Value: R2,535,604.48

Appointed to obtain environmental authorisation to develop plantations, generate electricity and produce Ethanol from sugarcane and sweet sorghum, as well as the production of food crops.

Position: Environmentalist

Assigned Tasks: Technical review of environmental documentation, Drafting of documentation to International Finance Corporation (IFC) requirements

EIA and WML for the Underground Coal Gasification Project and associated infrastructure in support of co-firing of gas at the Majuba Power Station, Mpumalanga, South Africa, South Africa

Start Date: 2008

Client Name: Eskom Holdings SOC Ltd

Project Value: R3,700,909.01

Undertaking the Environmental Impact Assessment process for (EIA, Waste Management License, Water Use License), for the Underground Coal Gasification (UCG) project for Eskom Holdings

Position: Environmentalist

Assigned Tasks: Review of environmental documentation, support to Project Manager.

Integrated Public Transport Network, South Africa

Start Date: 2012

Client Name: City of Cape Town Municipality

Project Value: R14,946,426.00

Development of an Integrated Public Transport Plan (IPTN) and a corridor plan for the Lansdowne-Wetton Corridor.

Position: Environmentalist

Assigned Tasks: Generation of environmental screening investigation for both sites. Environmental advisor.

Periodic Maintenance NR 2 section 8 Harkerville and Natures Valley, South Africa

Start Date: 2012

Client Name: South African National Roads Agency SOC Limited

Project Value: R55,000,000.00

This project is located on the N2 section 8 between Harkerville (km 47,2) and Nature's Valley (km 81,0).

Position: Environmentalist

Assigned Tasks: Compilation of documentation for authority input, Enviro-legal assessment of project, Environmental risk determination/screening, Authority liaison

DR 2151 and Camp Street Saldanha, South Africa

Start Date: 2012

Client Name: Department of Public Works

Project Value: R8,000,000.00

Rehabilitation of Division Road 2151 Saldanha

Position: Environmentalist

Assigned Tasks: Compilation of documentation for authority input, Enviro-legal assessment of project, Technical environmental input into design, Environmental risk determination/screening, Authority liaison

EIA for Klinkerstene Regional Waste Site (AECOM)

Start Date: 2012

Client Name: Interwaste

Project Description: Development of the proposed Klinkerstene regional "landfill" site, Delmas, to serve both Mpumalanga and Gauteng – carrying out the environmental (general and waste specific) authorisation / permitting process

Position: Project Principal

Assigned Tasks: Project manager and senior environmental scientist on Environmental Impact Assessment of project

Environmental Screening Report – uMkhomazi Water Transfer Project (AECOM)

2012 – 2013 (*no longer involved thereafter*)

Client: National Department of Water Affairs

Project Description: Environmental Screening process and resultant report forming part of the feasibility study – including the proposed Impendle and Smithfield Dam sites and the 30km+ tunnel linking Smithfield to the Umlaas Road water treatment works, transferring raw water from the uMkhomazi to uMlaas River catchments. Ongoing process to oversee the Environmental Impact Assessment (EIA) team generating the environmental authorisation documentation.

Position in Team: Environmental team project manager / senior environmental scientist

Assigned Tasks: Generating the environmental screening report specific to the proposed project including development of the full enviro-legal assessment of the required permits for the project. Further process to facilitate the EIA team's EIA process.

Draft Guideline document: DEAT (2007) Guideline 7: Detailed Guide to Implementation of the Environmental Impact Assessment Regulations, 2006 (WEB Environmental)

Date: 2006 – 2007

Client Name: Department of Environmental Affairs and Tourism (DEAT)

Complementary guideline to the 2006 revision of the EIA Regulations.

Position: Environmentalist

Assigned Tasks: Environmentalist Input, primary co-author.

Range of petrochemical projects (WEB Environmental)

Date: 2005 – 2011

Client: Chevron – trading as “Caltex”

Project Description: Generation of a range of environmental permitting related projects for Chevron, including full formal Environmental Impact Assessments for existing fuel stations, upgrades / amendments, advice on closures, advice on enviro-legal issues relating to the environmental field.

Position in Team: Environmental Assessment Practitioner

Assigned Tasks: Carrying out the various EIA processes in entirety, including administrative, interaction with client and authorities, technical document generation and specialists' information integration, and, carrying out the relevant public participation processes. Providing enviro-legal advice on environmental concerns for Chevron within their South African operations.

Other experience

Chief Environmental Scientist, EIA and permitting: BKS / AECOM South Africa

Date: 2012

EAP managing projects / programmes related to environmental permitting. Drafting environmental documents. Programme management of non-regulated environmental reports. Formulation of environmental policies, strategies and

screening processes. Provision of environmental input into project planning / design.

Of specific reference: Included enviro-legal audit in association with the engineering audit for the Ford plant, Silverton, Pretoria.

Senior Environmental Assessment Practitioner: WEB Environmental Consultancy

Date: 1999 – 2011

Senior EAP in self-owned environmental consultancy. Completed range of environmental management projects / processes, including petrochemical installations, mixed land-use urban developments, input into townplanning process, peer review and editing of EIAs, technical opinions on environmental requirements. Environmental Control Officer (ECO).

Of specific reference: Compliance audits carried out i.t.o. environmental authorisations. Developed range of environmental guidelines. Detailed review and compilation of International Finance Corporation (IFC) environmental documents for East European projects.

Acting Assistant Director: Gauteng Department of Agriculture and Rural Development

Date: 2003 – 2004 (concurrent with WEB Environmental)

Technical review of EIA documentation submitted for authorisation. Supervisory function of junior staff.

Environmental Manager (Contract): City of Johannesburg Metropolitan Municipality

Date: 1999 to 2005 (concurrent with WEB Environmental)

Development and implementation of environmental review process for Environmental Management unit for review of EIA and townplanning documentation. Detailed review of EIA and town planning applications. Development of sector-specific guidelines for CoJ clusters (e.g. Roads, Water) defining environmental constraints.

Environmental Officer: Gauteng Department of Agriculture and Rural Development

Date: 1998 – 2000

Technical review of EIA documents submitted for authorisation across range of development types. Compliance monitoring. Review of mining-related applications from

environmental viewpoint. Commenting on land-use applications. Input into Gauteng Land Development Objectives and Integrated Development Programmes. Advisory function i.t.o. environmental legislative requirements. Participation in manual development, including checklists and guidelines, relating to Directorate's line function.

Qualifications

- **1995** MSc Quantitative Conservation Biology, University of the Witwatersrand
- **1993** BSc (Hons) Botany, University of the Witwatersrand
- **1992** BSc Botany / Zoology, University of the Witwatersrand



Curriculum Vitae

Malcolm Roods

Knowledge Group Leader Transport and Planning

T: +27117986000

F: +27117986005

Email: malcolm.roods@rhdhv.com

Malcolm Roods is a Principal with RHDHV specializing in Environmental Impact Assessments (EIA) for electricity supply (generation, transmission and distribution), road infrastructure, residential developments as well as water management projects. This builds on a broad government background, which has made him particularly flexible. His past experience includes 6 years public service which included policy development, environmental law reform and EIA reviews. His experience also includes more than 9 years of environmental consulting in the field of Impact Assessment and Authorisation Applications, with a focus on legislative requirements and business management.

Since joining the company he has been involved with major EIA projects such as the Transnet New Multi Product Pipeline (NMPP), various Rand Water Pipeline projects, numerous Eskom Research, Generation, Transmission and Distribution projects, SANRAL road developments as well as undertook Independent Reviews of the EIA process for the National Department of Environmental Affairs, etc to name but a few.

Nationality

South African

Years of Experience

15 year(s)

Years with Royal HaskoningDHV

9 year(s)

Professional memberships

Environmental Assessment Practitioners of SA
Environmental Law Association

Qualifications

- 2016** Bachelor of Laws (LLB) - University of South Africa
- 2000** BA (Honours)* Geography and Environmental Management, Potchefstroom University, South Africa
- 1999** BA Public and Private Sector, Potchefstroom University, South Africa
- 1997** Higher Education Diploma Intermediate Phase, Potchefstroom University, South Africa

* *Cum laude*

Professional experience

EIA and WML for the Southern WWTW Upgrades, South Africa

- > Start Date: 2013
- > Client: AECOM SA (Pty) Ltd
- > Project Value: R1,675,742.15

Assist eThekweni Municipality in applying for a Coastal Waters Discharge Permit and an Integrated Environmental Authorisation for the Southern Wastewater Treatment Works sea outfall pipeline and upgrades

Position: Project Principal

- Assigned Tasks: Undertaking the EIA for the Waste Water Treatment Works upgrades

ECO for the 75MW CSP project in Bokpoort, South Africa

- > Start Date: 2013
- > Client: ACWA Power Solafrica Bokpoort CSP Power Plant (Pty) Ltd

Undertake the necessary Environmental Control Officer (ECO) duties for the monitoring of the implementation of the Environmental Authorisations (EA), Environmental Management Plans/Programmes (EMP/EMPr), Waste License (WL) and Water Use License (WUL) during the construction phase

Position: Project Principal

- Assigned Tasks: Internal review of all project documentation prior to this being submitted to the Environmental Authorities

Environmental Impact Assessment (EIA) for P166/1-2 New Route in Nelspruit Ubuntu Engineering Consultants for SANRAL, South Africa

- > Start Date: 2012
- > Client: Ubuntu (Pty) Ltd

Environmental Impact Assessment (EIA) for the Proposed New Route P166-1/2 in Mbombela /Nelspruit

Position: Project Principal

- Assigned Tasks: Lead EAP and final reviewer

Rendering of Various Environmental and Mine Health and Safety services on various quarries and borrow pits for the Roads and Stormwater Division, South Africa

- > Start Date: 2012

> Client: City of Tshwane Metropolitan Municipality

Rendering environmental/mine health/safety services: various quarries/borrow pits,

Position: Project Principal

- Assigned Tasks: Quality controller and final reviewer for the mining right, rectification and WULA processes.

TTLIP - RHDHV appointed for Technical Inputs and Management Tasks relating to the Eskom project, South Africa

- > Start Date: 2012

> Client: SiVest SA

Technical Project Support is provided to SiVest in the completion of the Eskom proposed Thyspunt Transmission Line Environmental Impact Assessment (EIA). This includes completing sections of the final EIA, review of the final EIA as well as providing environmental advice to the project proponent, Eskom. Tasks also included the revision and addendum to the Visual Impact Assessment report.

Position: Project Principal

- Assigned Tasks: Final reviewer and Technical Input on the EIA.

EIA and TIA for Valleyview Residential Development, South Africa

- > Start Date: 2012

> Client: Before the Wind Investments 113 (Pty) Ltd

An Environmental Impact Assessment and Traffic Assessment for the Proposed Valleyview Residential Development on Portion 22 of the Farm Naauwpoort 355-JS, in Witbank, Mpumalanga Province.

Position: Project Principal

- Assigned Tasks: Client Liaison, quality controller and final reviewer of reports.

Environmental Impact Assessment for the Cornubia Phase 2 Development, South Africa

> Start Date: 2012

> Client: Tongaat Hulett Developments (Pty) Ltd

Conduct a full Environmental Impact Assessment (EIA) for the proposed Cornubia Mixed Use Phased development - Phase 2 in Mount Edgecombe, KwaZulu-Natal.

Position: Project Principal

- Assigned Tasks: Final reviewer and quality controller on the EMPR and EIA reports compiled.

Environmental Assessment Services for the proposed BRT Line 1, South Africa

> Start Date: 2012

> Client: A-M Consulting Engineers (Pty) Ltd

Conducting all General Environmental Assessment Services and Public Participation Process work related to managing the process in obtaining the required environmental authorisation from the relevant authorities for the proposed BRT Line.

Position: Project Principal, Project Manager

- Assigned Tasks: Reviewer and overall quality controlling of the project deliverables.
- Responsible for the Project Management, which will include regular liaison with the Client and the environmental authorities, and an on-going review of progress of all aspects of the project. Overall Project Management and quality control during PPP.

Cornubia Retail Park - EIA, South Africa

> Start Date: 2012

> Client: Tongaat Hulett Developments (Pty) Ltd

Undertaking the Environmental Impact Assessment (EIA), full Public Participation Process (PPP), attending client progress meetings and providing environmental input into the planning of the proposed Phase 2 Retail Development. The aim was to obtain environmental authorisation from KZN DAEA & RD.

Position: Project Principal

- Assigned Tasks: Review Reports and supply Technical Input.

Technical Support to GDID: Enhancement of current Technical & Administrative Capacity, South Africa

> Start Date: 2012

> Client: Gauteng Department of Infrastructure Development

RHDHV (in association with Messrs Ernest & Young and Nokuthula Dube & Associates cc) were appointed to provide technical support to enhance current capacity within the GDID to deliver on infrastructure projects.

Position: Specialist

- Assigned Tasks: Providing environmental legislative inputs

Environmental and Social Impact Study (ESIA) for Envalor Lda in Mozambique, Mozambique

> Start Date: 2011

> Client: Envalor Lda

Appointed to obtain an environmental license to develop plantations, generate electricity and produce Ethanol from sugarcane and sweet sorghum, as well as the production of food crops.

Position: Project Principal

- Assigned Tasks: Environmental Management Licence Application and management of ESIA process

Environmental Impact Assessment (EIA) for the SOLARFICA 75MW CSP, South Africa

> Start Date: 2010

> Client: Lereko Metier Capital Growth Fund Manager (Pty) Ltd

Environmental Impact Assessment (EIA) for the proposed solar power plant in Groblershoop, Northern Cape

Position: Project Principal

- Assigned Tasks: Client consultation and overall management of the project team.

Environmental Impact Assessment and Environmental Management Plan for the proposed township development in Glen Erasmia Ext in the Ekurhuleni Metropolitan Municipality, South Africa

> Start Date: 2009

> Client: Witfontein Ext. 28 (Pty) Ltd

Environmental Impact Assessment and Environmental Management Plan for the proposed township development in Glen Erasmia Ext in the Ekurhuleni Metropolitan Municipality

Position: Project Principal

■ Assigned Tasks: Quality controller and final reviewer

Environmental Impact Assessment for the Rehabilitation of National Route 8 Section 12 between Tweespruit and Ladybrand, Free State

Start Date: 2008

Client: PD Naidoo and Associates

Compile Environmental Scoping, Impact Assessment and Management Programme Reports required in support of obtaining an environmental authorisation for the Road Rehabilitation

Position: Project Manager

■ Assigned Tasks: Responsible for Project Management, which included regular liaison with the Client and the environmental authorities, and an on-going review of progress of all aspects of the project. Overall quality control.

EIA and WML for the Underground Coal Gasification Project and associated infrastructure in support of co-firing of gas at the Majuba Power Station, Mpumalanga, South Africa, South Africa

> Start Date: 2008

> Client: Eskom Holdings SOC Ltd

Undertaking the Environmental Impact Assessment process for (EIA, Waste Management License, Water Use License, Rectification process), for the Underground Coal Gasification (UCG) project for Eskom Holdings

Position: Project Principal

■ Assigned Tasks: Strategic input into the project, quality control and peer review.

Basic Assessment for the proposed warehouse development, South Africa

> Start Date: 2008

> Client: Abbeydale Building & Civils

Basic Assessment process for the proposed development of a warehouse on a 18.7 hectare site in Ekurhuleni

Position: Project Principal

■ Assigned Tasks: Quality controller and final reviewer

Environmental Impact Assessment for the Tarlton to Magalies 132 kv line, South Africa

> Start Date: 2008

> Client: Eskom Holdings SOC Ltd

Construction of a new 132KV distribution line from Tarlton Substation to Magalies Substation and new double circuit 132KV line from Magalies to Springfarms Substation

Position: Project Manager, Project Principal

■ Assigned Tasks: Responsible for Project Management, which included regular liaison with the Client and the environmental authorities, and an on-going review of progress of all aspects of the project. Overall Project quality control.

■ Lead EAP and final reviewer

Environmental Impact Assessment for the Transnet New Multi Products Pipeline (NMPP) Inland lines in Gauteng & Mpumalanga provinces, South Africa

> Start Date: 2008

> Client: Eskom Holdings SOC Ltd

Construction of a new 165km pipeline as part of the Northern Routes (Inland Lines) components of the NMPP project.

Position: Project Manager

■ Assigned Tasks: Overall project management and quality control.

Germiston North substation extension & Isando 44 KV Line - Basic Assessment, South Africa

> Start Date: 2008

> Client: Eskom Holdings SOC Ltd

Basic Assessment for the construction of an access road in Lombardy and the upgrade of the Lombardy and Bedfordview Substations

Position: Project Manager

■ Assigned Tasks: Overall project management and quality control

Capacity Building Sessions to Bridge the gap between the Environmental Management, Development Planning & Urban Management Departments, South Africa

> Start Date: 2008

> Client: City of Johannesburg

Capacity Building Sessions to bridge the gap between the Environmental Management, and Development Planning & Urban Management

Position: Specialist

■ Assigned Tasks: Specialist Studies undertaken required for Environmental Impact Assessment (EIA) processes

Environmental Impact Assessment for the Jupiter to Sebenza 400kV line, South Africa

> Start Date: 2008

> Client: Eskom Holdings SOC Ltd

Construction of a new 400KV transmission line from Jupiter to Sebenza Substations and associated 400kV link lines, Gauteng

Position: Project Principal

■ Assigned Tasks: Lead EAP, quality controller and final reviewer

Environmental Impact Assessment for the Nexant CSP developments in the Northern Cape Province

> Start Date: 2014

> Client: Nexant Inc

Undertake the EIA processes in support of obtaining integrated Environmental Authorisations and Waste Management Licenses for the construction of a 150MW Parabolic Through and 150MW Central Receiver development

Position: Project Principal

■ Assigned Tasks: Lead EAP, quality controller and final reviewer