

Appendix A: EAP CVs

CURRICULUM VITAE



ROB HOUNSOME

AFRICA GROUP MANAGING DIRECTOR

QUALIFICATIONS

MSc Environment Geochemistry	1994
BSc (Honours) Environmental Geology	1993
BSc Geology and Applied Geology	1992

EXPERTISE

- Environment, Social and Governance
- Due Diligence and Lender Compliance
- ESIA
- Stakeholder Engagement
- Pollution & Waste
- Climate Change

Rob is the Managing Director of the SLR Group of Companies in Africa. He has 27 years of wide-ranging experience in Environmental and Social advisory and consulting in more than 41 countries worldwide.

Rob has a particular interest in advising on complex environmental and social issues in developing countries and in assessing, monitoring and managing the impacts of development directly, indirectly and cumulatively on the natural environment and people. His experience has ranged from supporting National Government and International Agencies with the development and application of customised environmental planning and assessment tools through to completing ESDD's and ESIA's in accordance with requirements of National Governments, Industry Associations, and various funding agencies including major International Finance Institutes, Equator Principle Banks, and/or PE and Legal Firms. In addition, he has completed multiple research and consultancy technical assignments in the fields of Climate Change and Pollution & Waste.

Rob has worked extensively in the Mining, Oil & Gas, Manufacturing/Industrial and Infrastructure sectors.

Rob has lectured and supervised research students at Universities in South Africa, Sweden and the U.K., has facilitated multiple Environmental capacity building programmes across Africa and has presented keynote addresses to a number of international conferences on diverse subjects such as Environmental Assessment, Climate Change, Sustainability and Waste.

EXPERIENCE

**Africa Regional Manager /
Africa Group Managing
Director**

SLR Consulting
(2019 – current)

**Regional Director, Ramboll
Middle East & Asia**
(2015 – 2019)

**Leader of African Regional
Operations and Technical**

- International Association of Impact Assessment (Board Member from 2001 - 2006)
- South African Council for Natural Scientific Professions
- National Certification Referee for Environmental Assessment Practitioners (Founding Board Member)
- Board of the School of Environmental Sciences (University of Kwazulu-Natal, South Africa)
- Director of Golder Associates Ghana (30 person company with total revenue in excess of \$5M and executing projects up to \$4.5m for local and international clients in oil & gas and the mining sector.)
- Director of Golder Associates Guinea (with total revenue in excess of \$30M)
- Director of Golder Associates Democratic Republic of Congo (with total revenue in excess of \$10M)
- Director of Golder Associates Mozambique (25 person company with total revenue in excess of \$5M and executing projects up to \$3M)

Director for Environmental Projects, Golder Associates
(2007-2015)

Director of Environment, Pollution and Waste Business Unit, Council for Scientific and Industrial Research: Natural Resources and the Environment (NRE)
(1997-2007)

Environmental Consultant, Walmsley Environmental Consultants
(1994 – 1997)

- Director of Golder Associates Botswana (5 person company with total revenue in excess of \$2M and executing projects up to \$500k)
- Director of Ramboll Middle East (250 person company with total revenue of \$125M)
- Managing Director of SLR Consulting Africa Group of Companies

Country Experience:

- **Africa:** Botswana, Democratic Republic of Congo, Ethiopia, Ghana, Guinea, Liberia, Mauritania, Mozambique, Namibia, Nigeria, Senegal, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe
- **Asia:** Afghanistan, China, India, Philippine's, Uzbekistan, Vietnam
- **Europe:** Croatia, Denmark, Norway, Russia, Sweden, United Kingdom
- **Middle East and North Africa:** Algeria, Egypt, Jordan, Lebanon, Oman, Qatar, Saudi Arabia, Syria, UAE, Yemen

PROJECTS

As LESC, acted in an independent capacity to determine whether projects are compliant with the requirements of International Finance Institutions (IFI's). The assignments have involved assessing compliance, the development of Environmental and Social Action Plans, liaison with Lenders and their various advisors, and assisting in the drafting of suitable covenants into lending documents. Ongoing consulting support has been provided to Lenders for projects with potentially significant impacts.

Lenders Environmental and Social Consultant (LESC)

- LESC for Sohar Aluminium (2004 – ongoing)
- LESC for Emirates Aluminium (2007 – ongoing)
- LESC for Mindoro nickel project in Papua New Guinea (PNG) with a particular emphasis on resettlement action plans and the implications on indigenous people (2007)
- LESC Emirates Cement Company, United Arab Emirates (2007 – 2012)
- LESC for Cimint Blanc Algerian Spa, Algeria (2007 – 2012)
- LESC, for the Emerging Markets Telecommunications Company (EMTS) Project, in Lagos, Nigeria including the development of and Environmental & Social Action Plan and subsequent Environmental Management Programme (2008)
- LESC for Petroleum storage facility in Beira, Mozambique (2010)
- LESC for Aqalyng Water Management facility, Ghana (2010)
- LESC for the proposed Nkout Iron Ore project (2010)
- LESC for confidential acquisition of comprehensive waste management service facility to oil and gas exploration companies working offshore of Luanda, Angola (2010)
- LESC for Lafarge Cement Plant, Nigeria (2011)
- LESC for the Accugas Pipeline Project, Akwa Ibom State, Nigeria (2011)
- LESC for Roofings Ltd, Kampala, Uganda (2011)
- LESC for Boseto Copper Mine , Botswana (2012)
- LESC for Penumbra Coal Project, Mpumalanga, South Africa (2013)
- LESC for confidential aggregates quarry and cement manufacturing facility in Beluluane Industrial Park, Maputo and to the south of the city, Mozambique (2014)
- LESC for Konkola Copper Mines, the largest copper mine in Africa and one of the largest integrated copper facilities in the world (2015)
- LESC for Mina's proposed Petroleum storage terminal, berth facilities and associated infrastructure in the Port of Salalah, Oman (2016)
- LESC for Emirates Global Aluminium's bauxite refinery and associated works in the Emirate of Abu Dhabi, United Arab Emirates (2014 – Present)
- LESC for Duqm Refinery's proposed Refinery, Terminal(s) and pipeline project and associated facilities in the Special Economic Development Zone in Duqm, Oman (2017)
- LESC for Tuluu Kapi Gold Mine, Ethiopia (2020-ongoing)
- LESC for Lucara Diamond mine, Botswana (2021)

Fulfilled the role as ESDD consultant to determine any Environmental or Social liabilities with various facilities for investment purposes or in conjunction with ongoing compliance.

Environmental and Social Due Diligence Consultant

- ESDD for Envirotech, Johannesburg, South Africa (1995)
- ESDD Europair Johannesburg, South Africa (1995)
- ESDD review of a mining project in Zimbabwe for a confidential client (1996)
- ESDD for Mozambique Ports Development Company, Mozambique (2001)
- ESDD for Copper Mine and associated facilities in Zaire (1996-1997)
- ESDD of Freestart Battery CC in Pinetown, South Africa (2006)
- ESDD for the Proposed Medical Waste Management Facility at the Shongweni Landfill Site (Durban, South Africa) (2007)
- ESDD for the Taung Irrigation Scheme Project comprising three integrated projects (2007)
- ESDD for First Quantum Mining and Operations Limited (FQMOL) proposed Fishtie mine at Kashime Copper Project, Zambia (2008)
- ESDD for Iduapriem Mine, Ghana (2009)
- ESDD for Mogale Alloys, South Africa (2009)
- Annual ESDD audits for the Anglo Gold Ashanti Obuasi Mine in Ghana (2009-2012)
- ESDD of Tulawaka and Bulyanhulu gold mines in Tanzania (2009-2014)
- ESDD for three oil and gas facilities in Nigeria (2010)
- ESDD on Keaton Energy, South Africa (2010)
- ESDD for Richards Bay Minerals (2011)
- ESDD for Driefontein Mine, South Africa (2011)
- Environmental and social due diligence, including an Equator Principles compliance review, of the Central Ashanti Gold Ltd. mining operations in Ghana (2011)
- ESDD, including an IFI compliance review, of Gold Fields (Ghana) Ltd. Tarkwa and Damang Gold Mine operations in Ghana (2011)
- ESDD for a gold mine in Ghana (confidential for an Australian and European banking consortium) (2012)
- ESDD for a coal mine (Kangra Mine) in South Africa; this was an acquisition due diligence that had to address all liabilities including those for closure (2012)
- ESDD for Morila Mine, Ghana (2012)
- ESDD, including an IFI compliance review for the Medinandi Gold Mining Project for Papillon Resources in Mali (2012)
- ESDD for Sadiola Mine, Mali (2014)
- ESDD on a South African ferrochrome plant for Rukki Oyj, for acquisition purposes (2014)
- ESDD for ARABIAN PAPER PRODUCTS COMPANY-OLAYAN, Modon, KSA (2016)
- ESDD on several oil and gas installations in Saudi Arabia for acquisition or leasing purposes (2016 – 2018)
- ESDD on mixed-use development site in Split, Croatia (2018)
- ESDD and feasibility study for an Oil Refinery in Afghanistan on behalf of InFrontier (2019)
- ESDD for telecommunications portfolio investment with sites in nine countries across Africa (2019)
- ESDD for confidential mining project in Ethiopia (2020)
- ESDD for confidential mining project in Mpumalanga, South Africa (2020)
- ESDD for confidential industrial project in Lago, Nigeria (2020)

	Mining
<p>Environmental and Social Impact Assessment and Environmental Management Programme Report for Glenover Phosphate mine, South Africa (1995)</p>	<p>Acted as Project Manager and lead author for the ESIA and EMP. Included the management of water, soils, air and ecology specialists and socio-economist. Led the stakeholder engagement programme.</p>
<p>Environmental and Social Impact Assessment and Environmental Management Programme Report for Zwartkloof fluorspar mine, South Africa (1995)</p>	<p>Acted as Project Manager and lead author for the ESIA and EMP. Included the management of water, soils, air and ecology specialists and socio-economist. Led the stakeholder engagement programme.</p>
<p>Environmental and Social Impact Assessment and Environmental Management Programme Report for New Clydesdale Colliery, Exxaro (1995)</p>	<p>Acted as Project Manager and lead author for the ESIA and EMP. Included the management of water, soils, air and ecology specialists and socio-economist. Led the stakeholder engagement programme.</p>
<p>Environmental and Social Impact Assessment and Environmental Management Programme Report for Greenside Colliery, Anglo American (1996)</p>	<p>Acted as Project Manager and lead author for the ESIA and EMP. Included the management of water, soils, air and ecology specialists and socio-economist. Led the stakeholder engagement programme.</p>
<p>Environmental and Social Impact Assessment and Environmental Management Programme Report for Kloof underground gold mine, Goldfields S.A. (1996)</p>	<p>Acted as Project Manager and lead author for the ESIA and EMP. Included the management of water, soils, air and ecology specialists and socio-economist. Led the stakeholder engagement programme.</p>

<p>Environmental and Social Impact Assessment and Environmental Management Programme Report for limestone quarry, Ready Mix Materials (1996)</p>	<p>Acted as Project Manager and lead author for the ESIA and EMP. Included the management of water, soils, air and ecology specialists and socio-economist. Led the stakeholder engagement programme.</p>
<p>Environmental and Social Impact Assessment and Environmental Management Programme Report for Sigma Colliery, Sasolburg (1996)</p>	<p>Acted as Project Manager and lead author for the ESIA and EMP. Included the management of water, soils, air and ecology specialists and socio-economist. Led the stakeholder engagement programme.</p>
<p>Environmental and Social Impact Assessment and Environmental Management Programme Report for Greenside Colliery, Anglo American (1996)</p>	<p>Acted as Project Manager and lead author for the ESIA and EMP. Included the management of water, soils, air and ecology specialists and socio-economist. Led the stakeholder engagement programme.</p>
<p>EIA and contamination assessment for Sodimiza Copper Mine, Fluor Daniel Zaire/DRC (1996)</p>	<p>A Canadian based mining concern were interested in acquiring the Sodimiza Copper Mine in the Democratic Republic of Congo (at that stage Zaire). The EIA was conducted to review the environmental performance of the current operations and to evaluate the consequence of further expanding the mine. The EIA revealed significant environmental degradation on site including the sterilisation of vast tracts of land and significant water contamination. These impacts were manifest in a number of health concerns within the local community. The recommendations from the EIA led to the client implementing an integrated rehabilitation programme and putting in place community processes in response to the health concerns.</p>
<p>EIA for coal mining operation Riversdale Mozambique Lda (now Rio Tinto), Mozambique (2008-2009)</p>	<p>Technical advisor of two Environmental and Social Impact Assessments (ESIA) for Africa's largest open-cast coal mine and a coal-fired power plant near Tete, Mozambique on the confluence of two of the country's biggest rivers. Technical support for ESIA: procedural, enviro-legal, technical quality, socio-cultural and socio-economic risk and opportunities. Led and developed sustainability assessment for the proposed developments.</p>
<p>EIA for the Tulu Kapi Gold Mine, Ethiopia (2012-2015)</p>	<p>Project Leader. Nyota Minerals are proposing to establish a gold mine in rural Ethiopia. The ESIA was conducted to local regulatory and IFC standards and delivered well ahead of schedule. The project team integrated local technical experts with international specialists from more than 5 countries.</p>

<p>ESIA for Richards Bay Minerals expansion projects (2012-2015)</p>	<p>Project leader. The project involved assessing whether Richards Bay minerals had the appropriate approvals in place for all of their facilities and retrospective ESIA's for any unapproved facilities. This techno-legal project ultimately resulted in RBM regularising all of their permit conditions.</p>
<p>Various environmental assessment projects for Debswana (2012-2015)</p>	<p>Delivery of various environmental assessment and management projects as part of an overall Framework agreement for Debswana operations in Botswana.</p>
<p>ESIA & EMP update for Minas Moatize coal mine, Tete (2013-2014)</p>	<p>Technical advisor for the update of the ESIA and EMP for a coal mine in Tete, Mozambique. The project entailed a full review and update of all technical studies and the subsequent ESIA/EMP documents for submission to IFI's and the local regulators.</p>
<p>ESIA for Jindal iron ore mine, Kwazulu-Natal, South Africa (2013-2015)</p>	<p>Project leader for the ESIA Conducted an Environmental Impact Assessment for the establishment of an iron ore mine in South Africa to IFC standards on behalf of Jindal Africa. The proposed mine will be established within a moderately populated rural area of and may involve the resettlement of considerable numbers of people. The ESIA included a team of more than 100 specialists operating in diverse fields of expertise.</p>
<p>Strategic Environmental Advisory for Jindal coal, Botswana (2014)</p>	<p>Project leader advising Jindal on the regulatory and international financing requirements to establish a coal mine and associated power facility in Botswana.</p>
<p>ESIA for Manganese Mine in Northern Cape, South Africa (2019)</p>	<p>Project leader for the ESIA to regularise South 32's MMT mine's legal status.</p>
<p>ESG Closure advisory (2020 – current)</p>	<p>Advising several clients in South Africa on ESG considerations in mine closure in South Africa in alignment with the upcoming financial provision regulations.</p>
<p></p>	<p>Oil and Gas</p>
<p>EIA's for service station sites on the N3 near to Pietermaritzburg, Shell Petroleum, Durban, South Africa (1997)</p>	<p>Acted as Project Manager. The EIA compared two sites for the establishment of a service station adjacent to a National road. The EIA found neither site to be suitable due to high water tables and sensitive ecological conditions.</p>
<p>EIA for a gas pipeline in the Bazaruto archipelago, Sasol, Mozambique (2001-2002)</p>	<p>Project Manager. Sasol, as a project partner, were planning to implement a natural gas pipeline throughout the Bazaruto archipelago. The EIA involved detailed sea and land-based fieldwork and a comprehensive public engagement programme.</p>

<p>ESIA for Durban-Johannesburg pipeline for Transnet Ltd, South African fuels transportation company South Africa (2007-2009)</p>	<p>Co-Project Manager for Environmental and Social Impact Assessment (ESIA) for the New National Multi-Products Project (NMPP) for Transnet Ltd. Transnet Ltd is the South African State company with the mandate to ensure security of fuel supply to the country. The NMPP Project was one of the largest infrastructure projects ever in South Africa (US\$ 2 billion). The project consists of a coastal and inland fuel accumulation terminal capable of storing up to 180 000 m3 of different fuels joined by a 555-km 24' multi-products pipeline across mainly private land, with eight pump stations along the route.</p>
<p>ESIA's for Vopak Terminals petroleum storage facilities in Durban (x2), Richards Bay and Heidelberg, South Africa (2008-2014)</p>	<p>Project leader for several EIA's in Durban, Richards Bay and Heidelberg for greenfield (3 facilities) and brownfield (2 facilities) for petroleum storage on behalf of Vopak terminals in South Africa. The ESIA's were delivered in sensitive receiving locations from a risk management and/or environmental perspective and as such received significant scrutiny from the authorities and the public. In each case the projects were approved with no protest and/or conditionality.</p>
<p>ESIA for offshore and onshore facilities for Kosmos in Ghana (2011)</p>	<p>Project advisor. The ESIA focused on offshore and onshore facilities in Ghana with a focus on the impact on fisheries and fishermen.</p>
<p>Various ESIA's for fuel station decommissioning projects on behalf of Chevron in southern Africa (8 distinct projects) (2012-2015)</p>	<p>Project leader. Chevron have been decommissioning a number of their service stations in South Africa and are required to completed ESIA's in order to do so. A cost and time efficient ESIA process was negotiated with the authority to enable Chevron to successfully implement their project plans ahead of schedule and at a cost well below what they had expected.</p>
<p>EIA for GTL plant in Uzbekistan, Uzbekistan GTL (2012-2014)</p>	<p>Uzbekistan GTL is a joint venture between Uzbekneftegaz, Petronas and Sasol and are proposing to establish a GTL plant in Shurtan gas and chemical complex in Uzbekistan. Acted and Project Leader for the ESIA involving successful submission to meet local regulatory requirements and approval from IFI's including Export Credit Agencies. The ESIA was conducted in a combination of English and Uzbek and involved, at its peak, a team of >60 specialists. The role included negotiation with various international lending stakeholders.</p>
<p>ESIA for Shell Petroleum's Karoo basin unconventional gas exploration project (2012-2013)</p>	<p>Acted as Project Director, Technical reviewer and public consultation facilitator on the ESIA for Shell's Karoo project. The project entails unconventional gas exploration in the Karoo Basin in South Africa. The project received unprecedented public attention in South Africa and globally and resulted in one of the most comprehensive public consultation programmes ever undertaken for an ESIA project.</p>

<p>Establishment of Environmental and Social Management Plans for CNOOC (2012-2013)</p>	<p>Project Leader. In advance of CNOOC establishing their operations in Uganda, a comprehensive suite of ESMP documents were prepared. The ESMP's followed the requirements of the Ugandan regulations and the requirements of IFI's and positioned CNOOC for a successful project in-country.</p>
<p>ESIA for CNOOC oil and gas development in Uganda (2013-2015)</p>	<p>Acted as Project Director and overall ESIA lead for the ESIA to local and international standards for fullfield development, refinery and associated pipelines of a field in Uganda on behalf of the Chinese National Offshore Oil Company (CNOOC). The project included significant liaison and negotiation with the Ugandan government, project partners and IFI's. The project is a greenfields development in the oil and gas sector on the shores of Lake Albert in western Uganda, and represents the first production license issued in Uganda. CNOOC is the operator, with equal shareholding between CNOOC, Total and Tullow. A gas pipeline through rural terrain is part of the project scope.</p>
<p>ESIA baseline Physical and Biological monitoring for offshore Lake Tanganyika on behalf of Beach Petroleum (2013-2014)</p>	<p>Project Manager. Beach Petroleum were looking to establish an offshore exploration programme in Lake Tanganyika. As a precursor to the ESIA, a two year physical and biological monitoring programme in the offshore environment. The project team from originated from the US, Canada, South Africa and Tanzania.</p>
<p>ESIA for Sasol's Refinery, Central Processing Facility and Associated Pipelines on behalf of Sasol Mozambique via Genesis (2014)</p>	<p>Acted as Project Advisor for an Environmental Impact Assessment to IFC Performance Standards for a proposed expansion of the current Sasol Natural Gas Project in the Inhambane Province of Mozambique near Inhassoro, with the addition of a refinery, liquids plant and 19 new wells, half of which represent 'first oil' (light oil) in Mozambique, and an oil as well as gas pipeline.</p>
<p>Environmental Performance Review for Sohar Refinery, Oman (2014)</p>	<p>Undertook a strategic environmental review of the environmental performance of the Sohar Refinery for submission to the Ministry of Environment and Climate Affairs in Oman. The review provided a benchmark of environmental performance compared with similar refineries worldwide to guide the setting of regulatory standards.</p>
<p>ESIA for Puma Energy, Botswana (2014)</p>	<p>EIA to local regulatory standards for Puma Energy to establish various terminal projects in Botswana.</p>

<p>ESIA to IFI and local regulatory standards for 2D seismic survey on behalf of Delonex, Ethiopia (2014-2015)</p>	<p>Project Leader. Delonex has been awarded an exploration license in Ethiopia, covering Blocks 18, 19 and 21, located in the Warder-Galadi area with a total acreage of 29,865 sq km. An ESIA was undertaken to IFC and local regulatory standards for the 2D seismic survey phase of the exploration programme. The ESIA was successfully delivered in an aggressive (4 month) timeframe through careful planning, close liaison with the client and the authorities and by ensuring that the technical work was delivered to a very high standard.</p>
<p>ESIA to local standards for two Oil and Gas support facility sites in Dammam, KSA on behalf of NOV (2017-2018)</p>	<p>Project Leader. NOV is looking to establish two industrial sites to provide support to the Saudi Arabian oil and gas sector. Two ESIA's were undertaken to meet local standards.</p>
<p>Manufacturing and Power</p>	
<p>EIA for a chromic acid plant at Hlobane, Anglo American, Kwazulu-Natal, S.A. (1996)</p>	<p>Anglo American were proposing to develop a Chromic Acid Plant near one of their mining activities at Hlobane near to Vryheid (Kwazulu-Natal, South Africa). The EIA evaluated the environmental significance of the proposed development to the local atmospheric, aquatic, terrestrial and socio-economic conditions. As a consequence of the EIA and the significant issues identified, Anglo American decided not to proceed with the development.</p>
<p>EIA and environmental management plan for Hullett Aluminium's expansion project, Hullett Aluminium, Pietermaritzburg, South Africa (1996)</p>	<p>Hullett Aluminium process aluminium products including foil etc. from their plant in Pietermaritzburg. The EIA evaluated the environmental implications of expanding their operations. The EIA identified a number of impacts related to atmospheric pollution and water contamination and recommended mitigation measures to limit the significance of the impacts.</p>
<p>EIA and environmental management plan for Indian Ocean Fertiliser's expansion in Richards Bay, Indian Ocean Fertiliser, Richards Bay, South Africa (1999)</p>	<p>Fulfilled the role as Project Manager Indian Ocean Fertiliser make phosphorus-based fertilizers from their plant in Richards Bay (Kwazulu-Natal). The EIA evaluated the environmental implications of expanding their operations. The EIA identified a number of impacts related to atmospheric pollution, water contamination, marine pollution, waste management and socio-economics and recommended mitigation measures to limit the significance of the impacts. This project was particularly well received by the regional decision-makers.</p>

<p>EIA for the expansion of the Hillside aluminium smelter, Richard Bay, South Africa (1999-2000)</p>	<p>Hillside Aluminium was proposing to expand their operation into being the largest aluminium smelter in the western world. The EIA represented one of the most complex processes undertaken in South Africa to-date. The EIA process eventually reached over 100,000 stakeholders across diverse cultural backgrounds, age groups, language etc. This was supported with technical expertise focused on understanding the key environmental and socio-economic impacts. The project was awarded the 2001 BHP Billiton International Health Safety and Environment Award and the IAAsa National Premium Award. This project has expanded to include the preparation of waste water management guidelines and the development of an EIA follow-up process in support of the EIA.</p>
<p>Ongoing Strategic Environmental Management guidance to Hillside Aluminium (multiple projects) (1999- ongoing)</p>	<p>Providing specialist environmental management support to Hillside Aluminium for a variety of issues/initiatives, including:</p> <ul style="list-style-type: none"> Quantification of Groundwater and Receptor Impacts at Hillside Aluminium Development of an Integrated Water and Waste Management Plan (IWWMP) and a Rehabilitation Strategy and Implementation Plan (RSIP) Advising Hillside Aluminium on water management planning including the requirements for their stormwater retention facility Guidance on regulatory and ISO compliance Hillside Aluminium on their air quality requirements including an international benchmarking exercise on SO₂ and fluoride emissions from anode baking process and reduction sources. Ongoing support for liaison with communities.
<p>EIA for the development of an aluminium smelter in Coega Eastern Cape, South Africa (2000-2001)</p>	<p>Acted in the role as Technical Advisor for the EIA of the proposed Aluminium Pechiney smelter in the Coega Industrial Development Zone in the Eastern Cape Province of South Africa. The EIA involved complex air quality issues associated with cumulative emissions and nearby communities.</p>
<p>Ongoing Strategic Environmental Management guidance to Bayside Aluminium (multiple projects) (2000- ongoing)</p>	<p>Providing specialist environmental management support to Bayside Aluminium for a variety of issues/initiatives, including:</p> <ul style="list-style-type: none"> Quantification of Contamination Sources, Groundwater Pathway and Receptor Impacts Advising Bayside Aluminium on closure issues specifically in terms of water pollution and waste management Ad hoc support in liaison with regulators on water and waste issues PIN for Bayside Aluminium’s proposal to conduct a greenhouse gas reduction project/programme.

<p>Ongoing Strategic Environmental Management guidance to Mozal Aluminium (multiple projects) (2003- ongoing)</p>	<p>Providing specialist environmental management support to Mozal Aluminium for a variety of issues/initiatives, including:</p> <p>Environmental inputs on design, supply, manufacture, installation, construction and commissioning of treated waste water recovery water treatment plant</p> <p>Assisting MOZAL with waste management issues associated with dross</p> <p>Environmental and social monitoring plan</p>
<p>Ongoing Environmental Management support for Sohar Aluminium in Oman (2004- ongoing)</p>	<p>Ongoing advisory services to Sohar Aluminium (including the berth facilities, power plant, and the aluminium smelter) delivered formally on a bi-annual basis to support compliance with regulatory requirements and those of the Lenders through all Phases of Design, Construction, commissioning and Operations. Specialist services have included:</p> <p>Preparation of the Operations Environmental Management Framework</p> <p>Guidance on the management of SO₂ and fluoride emissions to meet international lender requirements</p> <p>Undertaking an Environmental review for the Omani government of the operating performance of the aluminium smelter and captured power plant.</p> <p>Training of Sohar Aluminium staff on the environmental issues associated with aluminium smelting in the Gulf.</p>
<p>EIA for the Rainbow Millenium Power Company, Richards Bay, South Africa (2004-2006)</p>	<p>Project Manager. The Rainbow Millenium Power Company is proposing to establish the first private enterprise coal fired power station in South Africa (at a location in Richards Bay). The project includes initially providing strategic support for the client to understand their environmental process requirements followed by a comprehensive EIA process. The EIA involved a specialist team of in excess of 50 scientists, engineers and sociologists due to the complex nature of the development and the proposed location.</p>
<p>EIA for a Ferrochrome Smelter on behalf of Tata Steel (India), Richards Bay, South Africa (2005-2006)</p>	<p>Project leader. Tata Steel proposed to establish a ferrochrome smelter in the heart of an industrial zone near to a residential area. The investment represents the first by this company outside of India. Due to the complexity of the receiving environment and the issues associated with public health and safety, the project received significant scrutiny from the public and the authorities. Through high quality technical work and a considered public engagement programme, the project was successful and Tata Steel are operating an environmentally acceptable facility.</p>
<p>EIA for an integrated aluminium complex in the Russian Federation, International Finance Corporation and European Bank for Reconstruction and Development, Russia (2005-2006)</p>	<p>Project Leader. SUAL Aluminium are proposing to establish an integrated aluminium complex, including a bauxite mine, an aluminium refinery and an aluminium smelter in the Russian Federation. The EIA is in the process of being conducted in terms of the IFC and EBRD's requirements and in line with the Russian 'OVOS' legislation. Included in the EIA process was the requirement to conduct a detailed audit of current activities at the bauxite mine and at another of SUAL's operations.</p>

<p>ESIA for BHP Billiton's proposed titanium ore smelter in Beluluane Industrial Park, Maputo (Mozambique) (2007)</p>	<p>Project Leader. An ESIA was undertaken for BHP Billiton's proposed titanium ore smelter in Maputo Mozambique. The project focused on significant issues associated with air and water quality and waste management. Due to market conditions, the project did not proceed.</p>
<p>Environmental Management support for Emirates Aluminium in Abu Dhabi, UAE (2007- ongoing)</p>	<p>Ongoing advisory services to Emirates Aluminium (including the berth facilities, power plant, and the world's largest single site aluminium smelter) delivered formally on a bi-annual basis to support compliance with regulatory requirements and those of the Lenders through all Phases of Design, Construction, commissioning and Operations.</p>
<p>ESIA for Kempe Dross' processing facility in Beluluane Industrial Park, Maputo (2008)</p>	<p>Project Leader. The ESIA was undertaken to determine the environmental suitability of Kempe Dross' facility to process waste from the Mozal smelter.</p>
<p>Environmental Management support for Kempe Dross (2008)</p>	<p>Advising Kempe on their approach to the management of dross and SPL on various smelters globally including in South Africa, Mozambique, the Middle East and Russia</p>
<p>EIA for the Moatize Power Project, Tete, Mozambique (2008-2009)</p>	<p>Project Leader. Vale were looking to establish a coal-fired power station adjacent to their mine in Mozambique. The power station would draw water from the Zambezi river and release immediately downstream into the same source. A technical team of more than 120 local and international specialists were assembled for the project. The ESIA was scrutinised by local regulators and IFI's and found to be one of the most comprehensive ever undertaken in the region. It has subsequently been used as a case study example for other companies looking to undertake ESIA's in the region.</p>
<p>Government of India (2009)</p>	<p>Guidance to the Government of India on environmental and social issues relating to investments into the aluminium smelting sector.</p>
<p>ESIA & EMP for Lafarge quarry and cement kiln in Syria (2011)</p>	<p>Project Leader. Lafarge sought international finance for their cement plant near to Aleppo in Syria. The ESIA was conducted in association with a Jordanian and Syrian partner and covered issues relating to air, water, waste, traffic, nomadic people and ecology. The project received finance from IFI's.</p>
<p>ESIA & EMP for Cimpor's proposed aggregate mine and processing facility in Gorongosa National Park (2011)</p>	<p>Project Leader. Cimpor sought finance from the IFC to establish a limestone quarry and aggregate processing facility inside the borders of the Gorongosa National Park. Due to the sensitivity of the receiving environment, the project attracted considerable international scrutiny and required a comprehensive ESIA and EMP with a particular focus on biodiversity impacts.</p>

<p>Development of EMP for Ma'Aden Aluminium smelter (2012)</p>	<p>Project Leader for the development of a comprehensive OESMP to meet lender requirements for the Ma'Aden Aluminium smelter in Saudi Arabia.</p>
<p>ESIA for sulphuric acid plant on Dundee Precious Metals site in Tsumeb, Namibia (2013-2014)</p>	<p>Project Leader. The ESIA was conducted on a brownfield site and included a number of technical studies focused on land, air and groundwater contamination. Due to historical issues with the site, careful delineation was required between existing issues and those likely to be caused by the newly proposed project.</p>
<p>Environmental Assessment of Hillside Aluminium's operations in Richards Bay (2014-2015)</p>	<p>Project Leader. A retrospective Environmental Assessment was conducted at the Hillside Aluminium smelter to determine the impacts of the facility so as to meet the requirements of the BHP Billiton Group.</p>
<p>Other</p>	
<p>EIA and contamination assessment of the New England Road Landfill site Pietermaritzburg Municipality, Pietermaritzburg, South Africa (1996)</p>	<p>The EIA involved determining the significance of expanding the operations of the New England Road Landfill site to accept hazardous waste materials. The EIA focused on issues of water contamination and odour. The resultant management plan ensured that the impacts were mitigated.</p>
<p>ESIA for the siting of hazardous landfill sites (1995-1996)</p>	<p>Project leader. Using GIS tools and through public interaction this project determined suitable sites for the establishment of hazardous landfill sites.</p>
<p>Environmental management strategy for Ekuseni, Nelson Mandela Children's Foundation (1996)</p>	<p>The Nelson Mandela Children's Foundation established a youth detention centre in Ekuseni. The project prepared a waste management strategy that aimed at receiving maximum return on waste products (i.e. waste reuse and recycling were key). In addition, a composting facility was established. Of the total waste produced only 10% was eventually landfilled. This project was conducted pro bono.</p>
<p>EIA for a bulk water supply in Ubombo, Mhlathuze Water, Zululand, South Africa (1997)</p>	<p>Mhlathuze Water was proposing to provide water to rural communities in Northern Kwazulu-Natal. The EIA evaluated two aspects of the proposal; firstly, whether the water source would be adequate and secondly, whether the pipeline to transport the water would have significant environmental consequences. In both cases, the environmental implications were mitigated and the bulk water scheme went ahead.</p>

<p>Environmental assessment and management plan for the Lubombo SDI, Department of Trade and Industry; South Africa, Swaziland and Mozambique (1998)</p>	<p>The Lubombo Spatial Development Initiative (SDI) were looking to promote a number of tourism initiatives in Swaziland and KwaZulu-Natal. The EIA evaluated the environmental effects of these developments and put in place a screening mechanism to evaluate tourism proposals.</p>
<p>ESIA for a five star tourism facility on the banks of the Zambezi River in Zambia (1998)</p>	<p>Acted as Project Leader for the ESIA of a 5-star resort located on the banks of the Zambezi River. Due to the project location critical issues were identified with respect to the migration of elephant to the river along with the potential loss of culturally sensitive areas. Mitigation plans were developed in conjunction with the local communities to reduce the significance of this impact.</p>
<p>ESIA guidelines and approach for Kalpasar project, India (2006)</p>	<p>Review of Environmental Assessment approach for the proposed Kalpasar project comprising the development of a 64km dam across the Gulf of Kalambhat, thereby impounding the flows of 12 rivers which discharge into the gulf, to form a freshwater lake of approximately 2,000 km². Provided recommendations to the Government of Gujarat on utilising alternative approaches to ESIA to establish environmental and social risks and impacts.)</p>
<p>ESIA for road upgrade project for Transnet (2009)</p>	<p>Project Leader. Transnet Limited undertook a large capital projects expansion programme of all the facilities in the Port of Durban. One important aspect that is crucial to the effective functioning of the port is the road and transportation system, which has become strained due to high traffic volumes using the port's road system. To solve this growing problem, Transnet Limited intends to upgrade and expand the roads in the Port of Durban. This will help facilitate the effective transportation of goods and cargo into and out of the harbour. The ESIA focused on the road upgrade programme across the port.</p>
<p>Feasibility study and ESIA for water re-use plant (2010-2014)</p>	<p>Project Leader. As a result of a water reconciliation process it became evident that there were insufficient water resources in the Durban Municipality. This project focused on understanding the technological, financial, environmental and social feasibility of re-using water for potable purposes in the Municipality. The project culminated in the preparation of an ESIA and associated permitting programme.</p>
<p>Advisor to Waste Management service provider (Interwaste) on the development of facilities in Tete and Pemba (2012-2014)</p>	<p>Acted as Project Advisor for a waste management service provider on the Environmental and Social implications of establishing a landfill site in Mozambique to support the mining and/or oil and gas industries.</p>
<p>ESIA for road development project in rural Uganda for CNOOC (2013)</p>	<p>Project Leader. A road is required to be constructed through a national park and community area in rural Uganda to access the Lake Albert oil fields. A rapid ESIA was conducted to meet the requirements of the local regulators and the IFC.</p>

<p>ESIA for the establishment of a hazardous waste landfill site on behalf of Interwaste (2013-2015)</p>	<p>Acted as Project Director for the ESIA of a hazardous waste landfill site with the incumbent issues of groundwater contamination and the potential loss of a wetland area.</p>
<p>ESIA for a five star tourism facility in Bilene, Mozambique (2015)</p>	<p>Project Director for the ESIA of a 5-star tourism resort in an ecologically sensitive part of rural Mozambique.</p>
<p>Environmental and Social Review of water supply offtake point for power plant (2015)</p>	<p>Review of environmental and social implications for the ACWA Power offtake from the Zambezi river for their power plant in Moatize, Mozambique. Determined the technical feasibility of and the potential environmental and social implications associated with a proposed change in the position of the water supply intake point on the Zambezi River and also the first 3.5 km of the rising main to the Vale Moatize Coal Mine running parallel to the Zambezi River.</p>
<p>ESIA for land development project in Aqaba, Jordan (2016)</p>	<p>The Saudi Arabian sovereign wealth fund (PIF) are looking to establish three large-scale development facilities in Aqaba, Jordan. The ESIA involved the assessment of three individual sites in Aqaba for residential, commercial and mix-use activities.</p>
<p>ESIA for land development in Umm al Qwaim, UAE (2018)</p>	<p>The ESIA focused on infrastructure development for a large island development offshore of the Emirate of Umm al Qwaim in the UAE.</p>
<p>Development of Environmental Regulations, Guidelines and Best Practice Documents</p>	
<p>Land and soil quality monitoring guidelines, Gold Fields (1996)</p>	<p>Land and soil quality monitoring guidelines were devised for the environmental branch of Gold Fields SA as part their day-to-day monitoring activities. The monitoring guidelines were then taught to the client through a number of training programmes and through the development of a video. The monitoring guidelines were tested at Greenside coal and Kloof gold mines to determine their suitability which was confirmed.</p>
<p>Environmental management guidelines in Paulpietersberg, Anglocoal (1996)</p>	<p>Anglocoal were in the process of closing a coal mine in Paulpietersberg. This project evaluated the environmental conditions of the mine (which was found to be producing significant environmental degradation specifically in terms of acid leachate) and prepared environmental management and rehabilitation guidelines to remediate the issues.</p>
<p>Waste Management Guidelines for the Mozambique Ports and Rail Company, Mozambique (1998)</p>	<p>The Mozambique Ports and Rail Company were proposing to privatize their ports throughout Mozambique. This project involved an environmental evaluation of the ports from a waste management perspective to identify significant environmental impacts and then went on to recommend management measures that needed to be implemented prior to privatization going ahead.</p>

<p>Development of Environmental Management for the Federal Government of Ethiopia, World Bank (1999-2001)</p>	<p>The objectives of this project were improve the capacity of experts and professionals engaged in Environmental Management activities, build competence and capacity in Environmental Management methods, upgrade and compile the already prepared procedural and sectoral EM guidelines, and prepare and develop project level EM guidelines in Ethiopia. The project was conducted in two phases, the first focused on institution building at the Federal level and the second focusing on regional training.</p>
<p>Environmental monitoring strategies for the Federal Government of Ethiopia and Djibouti, United Nations Industrial Development Organisation (2000)</p>	<p>As part of UNIDO's integrated programme for Ecologically Sustainable Industrial Development in Ethiopia and Djibouti, this project has focused on implementing integrated monitoring strategies to support sustainable industrial development in the country. Working closely with the Ethiopian EPA, the project has both implemented practices and ensured that adequate capacity has been built to ensure the sustainability of those practices in Ethiopia and Djibouti.</p>
<p>Development of South Africa's Integrated Environmental Management (IEM) Information Series (2004-2006)</p>	<p>Project Director for the development of South Africa's Integrated Environmental Management (IEM) Information Series comprising 16 guidance documents, as follows: Overview of Integrated Environmental Management; Screening; Scoping; Stakeholder Engagement; Specialist Studies; Impact Significance; Ecological Risk Assessment; Cumulative Effects Assessment; Cost Benefit Analysis; Life Cycle Assessment; Strategic Environmental Assessment; Criteria for determining Alternatives in EIA; Environmental Management Plans; Review in Environmental Impact Assessment; Environmental Auditing; Environmental Impact Reporting; and Environmental Economics (2005 – 2006)</p>
<p>Development of guidelines for SEA of mining activities (2004)</p>	<p>As one of their environmental management guideline series, SEACAM commissioned the preparation of a guideline document to guide mining activity EIA's in the coastal zone. A comprehensive booklet was developed for distribution to a number of stakeholders.</p>
<p>Development of guidelines for the incorporation of HIV/AIDS into EIA, World Bank (2004)</p>	<p>In recognition of the relationship between development and HIV/AIDS, this project provided detailed guidelines to link HIV/AIDS issues into the EIA process and then further into the project implementation cycle. The project drew on development experiences in Ethiopia, Uganda and South Africa.</p>
<p>Development of EIA guidelines and institutional arrangements for the Mpumalanga Government (2006-2008)</p>	<p>The objectives of this assignment were to develop regional guidelines for Environmental Management and the associated institutional arrangements for their implementation in the province of Mpumalanga.</p>
<p>Development of Environmental Enforcement legislation and Implementation Guidelines for the Government of Sudan, World Bank (2010-2011)</p>	<p>The objectives of this project were improve the capacity of experts and professionals engaged in environmental enforcement activities, build competence and capacity in enforcement methods, upgrade and compile the already prepared procedural and sectoral guidelines. The project included a full review of the institutional capacity of Sudan's environmental enforcement team and resulted in a revised institutional framework and plan for the implementation thereof.</p>

<p>Development of EIA guidelines for renewable energy projects in southern Africa (2013-2014)</p>	<p>The project involved the preparation of guidelines on what to include for a variety of renewable energy projects in Southern Africa taking account of key environmental or social concerns and regulatory requirements.</p>
<p>Development of Environmental mitigation options for the Port of Richards Bay Coal Terminal (2015)</p>	<p>This project involved the assessment of environmental impacts from coal storage at the Richards Bay Terminal and the development of mitigation options to concept level for presentation to the Department of Water Affairs. The study included a comprehensive evaluation of water and dust impacts along with an assessment of the relative opportunities and constraints associated with mitigation options. The project concluded with the presentation of the options to RBCT management and onto DWA for implementation purposes.</p>
<p>Strategic Transformation Office Leader for Greater Authority of Meteorology and Environmental Protection (GAMEP), Saudi Arabia (2017-2018)</p>	<p>The Saudi Arabian government is looking to modernise its environmental function and are implementing an ambitious programme of 22 major initiatives with a total value of USD 1B over 10 years. Leading a team of 22 specialists to guide the implementation of the initiatives. As part of the exercise, Ramboll has been advising on key standards and parameters for the oil and gas sector in KSA including for the refineries.</p>
<p>Transformation of the Municipal Waste sector in the Kingdom of Saudi Arabia for Ministry of Municipal and Rural Affairs (2017-2018)</p>	<p>The Saudi Arabian government is seeking to upgrade all Municipal Waste Management Facilities. Leading a team of 15 specialists ranging from Waste classification experts through to experts in Landfill Engineering and waste processing, the project resulted in PPP's for the 5 major municipalities and a further 15 municipalities undergoing review.</p>
	<p>Strategic Environmental Assessment and Sustainability Appraisal</p>
<p>Sustainable development report for Richards Bay minerals (1999-2001)</p>	<p>This project involved the development of sustainable development strategies for Richards Bay Minerals. The purpose of the project was to understand how sustainable current operations were/are and to put in place a strategic direction for sustainable development at the mine and smelting operations into closure.</p>
<p>Strategy for sustainable development for the Mining and Minerals sector in southern Africa, Mining Minerals and Sustainable Development (1999)</p>	<p>This project involved the preparation of a paper to assist the Mining and Minerals sector in Southern Africa understand the meaning of sustainable development as it applies to their operations. The paper formed a cornerstone for detailed evaluations regarding sustainability and the mining sector in the sub-region.</p>
<p>Preparation of guidelines for sustainability in poor urban communities in South Africa Department of Arts, Culture, Science and Technology Country Study (1999-2001)</p>	<p>This project entailed a large research project funded by the South African government aimed at developing a toolkit for ensuring that appropriate technologies are implemented for sustainable development in communities living in poverty in South Africa. The project involved the management of researchers from 5 countries and with different technical expertise. A number of papers and research outputs have resulted from the project.</p>

<p>Sustainability Management Plan for the South Durban Industrial Area (1997-2000)</p>	<p>This comprehensive SEA resulted in the development of a detailed sustainability plan for the largest industrial zone in Kwazulu-Natal. The plan integrated economic development needs with environmental constraints. The zone includes two significant petroleum refineries which were an integral part of the assessment process.</p>
<p>Sustainability Management Plan of the Cato Manor Structure Plan for Durban Metro, Cato Manor Development Association, Durban, South Africa (1997)</p>	<p>The project evaluated the environmental consequences of the development plan for the area. The project then went onto develop a detailed Sustainability Management Plan for the area.</p>
<p>Plan for the Maputo Corridor SDI, Department of Transport and the Department of Trade and Industry, Mpumalanga, South Africa (1998-1999)</p>	<p>The Maputo Corridor has been identified as a strategic development zone that links Johannesburg with Maputo. This project considered the opportunities and constraints that the environment will place on development opportunities, including those within the mining sector. On the basis of these social and environmental issues, a Sustainability Management Plan was devised to inform the ongoing planning process and to inform the decision-makers of appropriate developmental actions.</p>
<p>Sustainability Management Framework for industrial development in Richards Bay and Empangeni, Richards Bay and Empangeni TLC, South Africa (1999)</p>	<p>This project considered the opportunities and constraints that the environment will place on industrial development opportunities in Richards Bay and Empangeni. On the basis of these environmental issues, a Strategic Environmental Management Plan was devised to inform the ongoing planning process and to inform the decision-makers of appropriate environmental actions. Ongoing environmental management in the region is currently guided by the Management Plan.</p>
<p>Strategic Environmental Assessment for Stream Flow Reduction Activities in Mpumalanga, Department of Water Affairs and Forestry (2000)</p>	<p>Forestry represents a significant risk to water resources in the Mpumalanga Province in South Africa. This project considered the nature of those risks and through a decision-making framework identified suitable areas for further development.</p>
<p>Environmental sustainable industrial development strategy for Ethiopia, United Nations Industrial Development Organisation, Ethiopia (2000)</p>	<p>Ethiopia is in the process of implementing a Sustainable Industrial Development Policy. This project developed a project strategy for determining the activities that need to be undertaken when implementing an ESID approach.</p>

<p>Environmental sustainable industrial development strategy for Tanzania, United Nations Industrial Development Organisation, Tanzania (2000)</p>	<p>Tanzania is in the process of implementing a Sustainable Industrial Development Policy. This project developed a project strategy for determining the activities that need to be undertaken when implementing an ESID approach.</p>
<p>Development and implementation of sustainability management plans for Durban, Richards Bay, Sasolberg, the National Ports Authority, Coastal and Marine Management, and the CAPE project Municipalities of Durban and Richards Bay, Sasol, the NPA and MCM (various projects) (2000-2006)</p>	<p>These projects although distinct dealt with the development of sustainability management plans and indicators to guide ongoing environmental reporting. The projects engaged stakeholders in determining their key sustainability concerns and vision and devised indicators on that basis.</p>
<p>Development of a National core set of Sustainability Indicators for South Africa’s State of the Environment Report, Department of Environmental Affairs and Tourism, South Africa (2002-2004)</p>	<p>This project has involved the preparation of a core set of environmental indicators for national State of the Environment Reporting in South Africa. The project has looked to integrate the needs of specialists with technical indicators. Ongoing activities in this project include the development and implementation of training modules for similar activities in the regional authorities in South Africa.</p>
<p>Mining and Sustainable Development Country Study in South Africa, Department of Minerals & Energy, South Africa (2003-2006)</p>	<p>This project aims to provide guidelines for various aspects of sustainable development to the mining industry in South Africa, including the development of closure plans (at the mine and regional levels), environmental and social management guidelines and rehabilitation guidelines.</p>
<p>Development of SEA guidelines in the coastal zone, SEACAM, Southern Africa (2003)</p>	<p>This project involved the preparation of detailed guidelines for undertaking SEA in the Coastal Zones of east Africa.</p>
<p>Environmental Management Framework, Department of Water Affairs and Forestry (2004-2006)</p>	<p>As a legislated commitment, DWAF are required to prepare a detailed environmental management framework to inform the implementation of their ongoing plans. The EMF is a detailed strategic environmental management document that deals with all activities within the department and includes modalities for their implementation.</p>

<p>Point Nepean Sustainable Development Management Plan, Australia (2007)</p>	<p>Project advisor for the preparation of a Sustainable Development Management Plan for the tourism facilities in Point Nepean located near Melbourne, Australia.</p>
<p>Preparation of South Africa’s submission to the United Nations Commission for Sustainable Development (CSD-16) (2007)</p>	<p>Led the team responsible for preparing and presenting South Africa’s submission to the UNCSO. This involved the management of a multi-stakeholder team from the public and private sector along with various non-governmental bodies.</p>
<p>Environmental and Social Strategic Assessment for the Development of the Mineral Sector in the Mano River Union, Guinea, Liberia, Sierra Leone (2008-2010)</p>	<p>The West African Mineral Sector Strategic Analysis (WAMSSA) is a strategic environmental and social assessment intended to identify policy, institutional and regulatory adjustments required for integrating environmental and social considerations into mineral sector development in Africa.</p>
<p>Environmental Capacity Building</p>	
<p>Environmental Impact Assessment short courses (Multiple) National Department of Health South Africa, the Universities of Orange Free State, Zululand and Durban-Westville, and Lund University, Sweden. As part of an initiative of the World Bank EIA courses were presented in Zambia, Ethiopia, Sudan, Tanzania, Namibia and Mozambique, (ongoing)</p>	<p>Environmental Assessment courses are typically in the region of one week in length and have focused on providing the attendees with skills that will enable them to conduct an EIA. The courses focus on EIA in the developing world.</p>
<p>Environmental Assessment and Management course for the Ethiopian Environmental Protection Authority and Regional Authorities (2001-2002)</p>	<p>The World Bank funded an EIA course at the Federal level in Ethiopia in support of the EIA Guideline revision process. That course was well received and repeated through a number of regional courses held in Addis Ababa, Gambella, Asossa, Oromiya, Dire Dawa, Harar, Jijiga, Bahir Dar, Mekelle, Awassa and Aysaita</p>

<p>EIA courses for post graduate students, University of Natal, South Africa (2001-2009)</p>	<p>A comprehensive EA course is delivered annually for University of Natal students. The course includes 26 lectures, 6 tutorials and 6 practicals. The typical number of students is 45 to 60.</p>
<p>Environmental Assessment for Mining in the Coastal Zone, SEACAM (2005)</p>	<p>A one week course detailing the environmental implications of coastal zone mining was delivered to government officials, academics and consultants from countries on the east coast of Africa.</p>
<p>Strategic Environmental Assessment, IAIA and SEACAM (2005)</p>	<p>Presented several week long courses in the content, process and intent of SEA to government officials, consultants and academics.</p>
<p>Review of EIA practitioners, Shell, Nigeria (2005)</p>	<p>Shell (Nigeria) were looking to improve the quality of their internal environmental assessment staff and in their consultants. The project involved interviewing EA practitioners to evaluate competency and to rate them according to the international IEMSA accreditation system.</p>
<p>The incorporation of HIV/AIDS into EIA – short course, World Bank (2005)</p>	<p>A week long course on how to incorporate HIV/AIDS issues into development programmes was delivered to government officials, academics and consultants from southern African countries</p>

INDUSTRY LEADERSHIP

- Development of National Environmental Impact Assessment regulations and processes in various countries in Africa including South Africa, Ethiopia, Tanzania, Sudan, Guinea, Liberia and Sierra Leone for as a consultant for the World Bank.
- Participation and leadership in a number of international policy processes:
 - United Nations Industrial Development Organisation regarding Cleaner Production Strategies, and Sustainability in East Africa (most notably Ethiopia and Tanzania)
 - United Nations Environment Programme National Communication on Climate Change, Technology Needs Assessment for Climate Change in Southern Africa.
 - Organisation for Economic Cooperation and Development (OECD) for the incorporation of Strategic Environmental Issues into International Lending.
 - The World Bank regarding the incorporation of strategic issues such as HIV/AIDS and climate change into ESIA.
 - The Global Reporting Initiative (GRI) on the incorporation of sustainability indicators into company reporting.
 - ICLEI – Local governments for Sustainability panel on climate change at the local level including having been invited to lead a delegation to three global climate change conferences (COP14, 15 & 16).
 - The World Bank on considerations for Sustainability-led mining development in the Manu River Union Counties of Guinea, Sierra Leone and Liberia.
- University lecturer at the post-graduate level in Environmental Assessment and Management at the University of Kwazulu-Natal, South Africa, Lund University, Sweden and the University of Manchester, UK.
- Supervisor of 12 MSc theses with the University of Kwazulu-Natal and Lund University, Sweden.
- Presented keynote addresses to a number of international conferences on diverse subjects such as Environmental Assessment, Climate Change, Sustainability and Waste.
- Board Memberships for the School of Environmental Sciences at the University of Kwazulu-Natal and with private sector companies in Africa.
- Expert witness for several confidential arbitration hearings.

AWARDS

Industry Awards

- BHP Billiton International Health Safety and Environment Award (2001)
- Global Premium Award for Excellence in Environmental Assessment (International Association of Impact Assessment) (2002)
- Consulting Engineers South Africa (CESA) Award for International Business Developer of the Year (2011)
- Climate Change Business Journal Business Achievement Award – Project Merit in Climate Change Adaptation (GIZ Vulnerability and Impact of Climate Change on Major Tourism Attractions and Activities) (2012)

Personal/Company Awards

- CSIR:
 - Most Improved Scientist (1997)
 - Achiever of the Year (1999)
 - Leadership Award (1999)
 - Technologies for Environmental Assessment and Management Mentorship Awards (2000 & 2001)
 - Leadership Award (2002)
- Golder Associates:
 - Special Initiatives Award for leading the growth of several offices in Africa (2007)
 - Global Innovation Award for the development and implementation of new services in Climate Change vulnerability assessment and adaptation into Golder's global business (2008)
 - Global Business Development Award (2014)

AWARDS

Industry Awards

- BHP Billiton International Health Safety and Environment Award (2001)
- Global Premium Award for Excellence in Environmental Assessment (International Association of Impact Assessment) (2002)
- Consulting Engineers South Africa (CESA) Award for International Business Developer of the Year (2011)
- Climate Change Business Journal Business Achievement Award – Project Merit in Climate Change Adaptation (GIZ Vulnerability and Impact of Climate Change on Major Tourism Attractions and Activities) (2012)

Personal/Company Awards

- CSIR:
 - Most Improved Scientist (1997)
 - Achiever of the Year (1999)
 - Leadership Award (1999)
 - Technologies for Environmental Assessment and Management Mentorship Awards (2000 & 2001)
 - Leadership Award (2002)
- Golder Associates:
 - Special Initiatives Award for leading the growth of several offices in Africa (2007)
 - Global Innovation Award for the development and implementation of new services in Climate Change vulnerability assessment and adaptation into Golder's global business (2008)
 - Global Business Development Award (2014)

CURRICULUM VITAE



NATASHA SMYTH

ENVIRONMENTAL ASSESSMENT PRACTITIONER

QUALIFICATIONS

BSc Hons	2008	Geography and Environmental Management
BSc	2007	Environmental and Biological Sciences

EXPERTISE

- Environmental Impact Assessments
- Environmental Compliance and Monitoring
- Environmental Due Diligence
- Management and facilitation of permitting and licensing processes
- Management and facilitation of stakeholder engagement processes
- Financial Provision, Closure and Rehabilitation Planning

Natasha is an environmental practitioner with SLR's South Africa office and is responsible for various environmental assessment projects. Natasha has 12 years of experience within the Minerals sector, both as a project manager and assistant to various projects in South Africa and Africa.

Natasha has managed and assisted in a wide range of Environmental Impact Assessment projects for major and small scale minerals developments throughout South Africa as well as in Namibia for many of the major operators within the minerals industry.

Since 2009 Natasha has been involved in over 50 projects of which she has project managed 36 projects varying in complexity with primary focus within the mining industry.

PROJECTS

Key aspects of Natasha's recent project experience are summarised below.

Environmental Compliance Assessment of the Lily and Barbrook Gold Mines (Limpopo Province) 2020

Project Manager. Legal environmental compliance assessment for the Lily and Barbrook Gold Mines and development of an Environmental and Social Action Plan.

Integrated Environmental Assessment Process for the Mamatwan Mine (Northern Cape Province) 2019 to 2020 - Manganese

Project Manager. Compilation of a Section 24G report, compilation of a scoping and environmental management programme reports, and an amendment of a Water Use Licence. The management of the stakeholder engagement process and a full set of specialists.

Environmental Assessment process for prospecting rights for Khwara Manganese (Pty) Ltd (Northern Cape Province) 2019 to 2020 - Manganese

Project Manager. Compilation of Basic Assessment Report and the management of the stakeholder engagement process and specialists in support two separate prospecting right applications.

<p>Environmental Assessment Process for the proposed alternative closure and rehabilitation strategy for the Tshipi Borwa Mine (Northern Cape Province) 2018 to 2019 - Manganese</p>	<p>Project Manager. Compilation of Basic Assessment Report and environmental management programme reports. The management of the stakeholder engagement process, multi-disciplinary specialist team both within South Africa and the UK. Assistant with the compilation of the Financial Provision Specialist Report.</p>
<p>Environmental Assessment Process for the merging of the Mamatwan Mine Sinterfontein Waste Rock dump and the Tshipi Eastern Waste Rock dump for the South32 Mamatwan mine (Northern Cape Province) 2019 - Manganese</p>	<p>Project Manager. Compilation of Basic Assessment Report and environmental management programme reports and the Water Use Licence Application. The management of the stakeholder engagement process specialist team including the compilation of the Financial Provision Specialist Report.</p>
<p>Minimum Air Quality Emissions Standard Postponement Application for Anglo American Platinum's Polokwane (Limpopo Province), Waterval (North West Province) and Mortimer Smelter (Limpopo Province) operations (2018 to 2019) - Platinum</p>	<p>Project Manager. Management of Stakeholder Engagement Process as part of an Air Quality Minimum Emissions Standards Postponement Application Process for the Waterval, Polokwane and Mortimer Smelter Complexes.</p>
<p>Minimum Air Quality Emissions Standard Postponement Application for the Zondereinde Northam Platinum Mine in the Limpopo Province in the Limpopo Province (2018 to 2019) - Platinum</p>	<p>Project Manager. Management of Stakeholder Engagement Process as part of an Air Quality Minimum Emissions Standards Postponement Application Process for the Zondereinde Smelter Complex.</p>
<p>Integrated Water Use Licence Application for the Lehating mine in the Northern Cape Province (2018 - 2019) - Manganese</p>	<p>Project Manager. Compilation of the Integrated Water and Waste Management Plan, Water Use Licence Application forms and the management of specialists in support of the Lehating Integrated Water Use Licence Application.</p>
<p>Integrated Water Use Licence Application for the new Khwara manganese mine in the Northern Cape Province (2018 - 2019) - Manganese</p>	<p>Project Manager. Compilation of the Integrated Water and Waste Management Plan, Water Use Licence Application forms, the management of specialists and authority liaison in support of the Khwara Integrated Water Use Licence Application.</p>
<p>Monthly environmental support for the Tshipi Borwa Mine (2018 – 2019) - Manganese</p>	<p>Project Manager. Off-site environmental support work.</p>
<p>Financial Provision for Infrastructure Changes at the Zondereinde Northam Platinum Mine in the Limpopo Province (2018) - Platinum</p>	<p>Project Manager. Compilation of the financial provision report for infrastructure changes at the Zondereinde Smelter Complex as part of a basic assessment process for changes to infrastructure at the smelter.</p>

<p>EMP commitments consolidation of the Tshipi and Mamatwan Mine for the mining of the barrier pillar in the Northern Cape Province (2018) - Manganese</p>	<p>Project Manager. Compilation of a barrier pillar mining commitments report to outline the collective environmental management programme, integrated water use licence and environmental authorisation commitments for both Tshipi and South32 specifically for the mining of the barrier pillar.</p>
<p>ESIA for the retreatment of copper tailings dams in the town of Kitwe in Zambia (2017 - 2018) - Copper</p>	<p>Project Manager. Compilation of scoping report and terms of reference. Compilation of the environmental and social impact assessment report to meet IFC requirements. Management of multi-disciplinary specialist studies. Co-ordination of specialist teams within Zambia and South Africa. Management of stakeholder engagement process.</p>
<p>Environmental compliance audit for the Sishen Dingelton resettlement site in the Northern Cape Province (2017)</p>	<p>Project Manager. Assess compliance with the conditions outlined in the environmental authorisation and the approved environmental management programme.</p>
<p>Environmental compliance audit for the Sishen Dingelton decommissioning site in the Northern Cape Province (2017)</p>	<p>Project Manager. Assess compliance with the conditions outlined in the environmental authorisation and the approved environmental management programme.</p>
<p>Atmospheric Emissions Compliance Audit for the Zondereinde Northam Platinum Mine in the Limpopo Province (2017) - Platinum</p>	<p>Project Manager. Assess compliance with the conditions of the atmospheric emissions licence for the Zondereinde Mine and report compilation.</p>
<p>Environmental compliance audit for the Northam Platinum Mine in the Limpopo Province (2017) - Platinum</p>	<p>Project Manager. Undertake an environmental compliance audit of the Zondereinde Mine in terms of applicable legislation and report compilation.</p>
<p>Independent Peer Review of the Vaal Gamagara Water Supply Scheme in the Northern Cape Province (2017)</p>	<p>Project co-ordinate. Management of specialists and review of environmental permitting aspects and assistance with report compilation.</p>
<p>Due diligence for a smelter complex and associated mine located in the North West Province (2016- 2017) - Ferrochrome</p>	<p>Project Manager. Team co-ordination and compilation of due diligence report</p>
<p>EIA and EMP for the development of the new Khwara underground mine in the Northern Cape Province (2016-2017) - Manganese</p>	<p>Project Manager. Compilation of scoping and environmental impact assessment and environmental management programme reports. Management of specialists and stakeholder engagement process and compilation of the financial provision report.</p>
<p>Environmental assessment process to cater for changes to the approved infrastructure layout at the Tshipi Borwa Mine in the Northern Cape Province (2012-2017) - Manganese</p>	<p>Project Manager. Compilation of scoping and environmental impact assessment and environmental management programme reports. The management of the stakeholder engagement process and specialists.</p>

<p>Preliminary close out audit for the Sishen Mine Dingleton Resettlement site near Kathu in the Northern Cape Province (2016)</p>	<p>Project Manager. Assess compliance with the conditions outlined in the environmental authorisation and the approved environmental management programme.</p>
<p>Update of the basic assessment report for the establishment of a diesel generator as part of dewatering infrastructure at the Evander No. 6 Shaft complex in the Mpumalanga Province (2016)</p>	<p>Project Manager. Update the basic assessment report to comply with the DMR report template</p>
<p>Environmental assessment process and air emissions license process for the establishment of the new Jeanette Mine in the Free State Province (2015-2016) - Gold</p>	<p>Project Manager. Compilation of scoping and environmental impact assessment and environmental management programme reports. Compilation of the technical supporting information required for a waste management license application and an air emissions license application. The management of the stakeholder engagement process and specialists.</p>
<p>Water Use License Compliance Audit for the UMK Mine in the Northern Cape Province (2015 - 2016) - Manganese</p>	<p>Project Manager. Assess compliance with the commitments included in the water use licenses issued and make recommendations for rectifying non-compliances and partial compliances identified during the audit.</p>
<p>Basic Assessment for undertaking prospecting related activities for Impala Platinum Mine in the North West Province (2015 -2016) - Platinum</p>	<p>Project Manager. Compilation of basic assessment report, management of specialists, management of stakeholder engagement process.</p>
<p>Environmental compliance audit for the UMK Mine in the Northern Cape Province (2015 -2016) - Manganese</p>	<p>Project Manager. Assess compliance with the conditions outlined in the environmental authorisation and the approved environmental management programme.</p>
<p>Environmental assessment process, waste management license process and water use license process for the establishment of a new Mokala Manganese Mine in the Northern Cape Province (2014-2016) - Manganese</p>	<p>Project Manager. Compilation of scoping and environmental impact assessment and environmental management programme reports. Compilation of the technical supporting information required for a water use license application process and submission of the waste management license application. The management of the stakeholder engagement process and specialists.</p>
<p>Environmental assessment process for the proposed construction of dewatering infrastructure and the development of a decant water pipeline in support of the proposed Evander Shaft 6 in the Mpumalanga Province (2014) - Gold</p>	<p>Project Manager. Compilation of a basic assessment report, the management of the stakeholder engagement process and the management of specialists.</p>

<p>Environmental legal gap analysis for Rappa Resources in the Gauteng Province (2014) - Gold</p>	<p>Project Manager. Compilation of an environmental legal gap analysis report to identify any inadequacies in existing approvals and to identify outstanding approvals in terms of the National Environmental Management Act 107 of 1998, the National Environmental Management: Waste Act 59 of 2008, the National Environmental Management: Air Quality Act 39 of 2004, and the National Water Act 36 of 1998 (NWA).</p>
<p>Environmental support work to meet the requirements of the approved environmental management programme and updating the water use license application for the UMK Mine in the Northern Cape Province (2009-2014) - Manganese</p>	<p>Project Manager. Environmental support with regards to assistance to the UMK Mine in implementing its environmental management programme commitments. This also includes quarterly stakeholder engagement processes, EMP performance assessments and quarterly audits. Updating the water use license and supporting documentation including a new integrated water and waste management plan and specialist management</p>
<p>Environmental Management Programme amendment for the Nooitgedacht Sand Quarry Mine in the Gauteng Province (2013) - Sand</p>	<p>Project Manager. Compilation environmental impact assessment and environmental management programme amendment report.</p>
<p>Proposed Kinsenda project amendment: underground mine and surface infrastructure for Meterox, Kinsenda Copper mine in the DRC (2013) - Copper</p>	<p>Project assistant. Assistance with the compilation of the environmental impact assessment and environmental management programme report.</p>
<p>The environmental assessment process to amend the existing environmental impact assessment report and environmental management programme report to cater for infrastructure changes as the Leeuwkop Platinum Mine in the North West Province (2012-2013) - Platinum</p>	<p>Project Manager. Compilation of scoping and environmental impact assessment and environmental management programme amendment reports. Submission of the waste management license application. The management of the stakeholder engagement process and specialists.</p>
<p>Environmental and social impact overview of the proposed development of a new training centre at the Impala Platinum Rustenburg Operation in the North West Province (2013) - Platinum</p>	<p>Project Manager. Compilation of a report to provide an overview of the potential environment and social impacts associated with the development of the proposed training centre.</p>
<p>Environmental Management Programme performance assessment of the Impala Rustenburg Operation in the North West Province (2012) - Platinum</p>	<p>Project assistant. Assistance with the on-site auditing and report writing required for the environmental management programme performance assessment</p>

<p>Prospecting environmental management plan renewal and amendment Afplats in the North West Province (2012) - Platinum</p>	<p>Project Manager. Compilation of the reports required for the renewal of a prospecting right, the amendment of an approved prospecting environmental management plan including the update of the financial provision and the management of the stakeholder engagement process.</p>
<p>Prospecting environmental management plan renewal and amendment (Impala Platinum Limited on behalf of Inkosi Platinum in the North West Province (2012) - Platinum</p>	<p>Project Manager. Compilation of the reports required for the renewal of a prospecting right, the amendment of an approved prospecting environmental management plan including the update of the financial provision and the management of the stakeholder engagement process.</p>
<p>Prospecting environmental management plan amendment Ntsimbintle Mining (Pty) Ltd) in the Northern Cape Province (2012) - Manganese</p>	<p>Project Manager. Compilation of the prospecting environmental management plan amendment report and specialist management.</p>
<p>The consolidation of Impala's fourteen existing approved environmental management programme reports into one consolidated report in the North West Province (2012) - Platinum</p>	<p>Project Manager. Compilation of a consolidated environmental impact assessment and environmental management programme report include the management of the stakeholder engagement process</p>
<p>Environmental evaluation of Pit8C at Impala Platinum in the North West Province (2012) - Platinum</p>	<p>Project Manager. Compilation of a report to evaluate if the approved EIA and EMP amendment report adequately caters for the proposed Pit8C conventional opencast mining area, in terms of the baseline environment, the impact assessment and the mitigation/management measures.</p>
<p>Environmental assessment process for the environmental impact assessment and environmental management programme amendment for a proposed new tailings dam, re-processing of an old tailings dam, rehabilitation of the old tailings and waste disposal site, and open pit expansion for Impala Platinum Limited (Rustenburg Operation) in the North West Province (2011-2012) - Platinum</p>	<p>Project Manager. Compilation of scoping and environmental impact assessment and environmental management programme reports. Compilation of the technical supporting information required for a water use license application process. The management of the stakeholder engagement process and specialists</p>
<p>EIA and EMP for the establishment of the Swakop Uranium Mine in Namibia (2011)</p>	<p>Project assistant. Project assistant with stakeholder engagement and managing specialists.</p>

EIA and EMP for the establishment of the new Husab Uranium Mine in Namibia (2011) - Uranium	Project assistant. Project assistant with stakeholder engagement and managing specialists.
EIA and EMP for the linear infrastructure associated with the Swakop Uranium Mine in Namibia (2010-2011) - Uranium	Project assistant. Project assistant with stakeholder engagement and managing specialists.
Environmental assessment process for the establishment of the new Turquoise iron ore mine in the Limpopo Province (2010-2011) – Iron Ore	Project assistant. Assistance with the stakeholder engagement process.
Environmental assessment process (2010)	Project assistant. Assistance with the compilation of the environmental impact assessment and environmental management programme report.
Environmental assessment process for the establishment of the new Kalkfontein Platinum Mine in the Limpopo Province (2010)	Project assistant. Assistance with the stakeholder engagement process.
Prospecting EMP for platinum group metals for Braggite Resources in the Mpumalanga Province (2010)	Project manager. Compilation of a prospecting EMP and stakeholder management process.
Compilation of the EIA and EMP reports for the Lonshi Copper Mine located in the DRC (2009-02010)	Project Assistant. Assistance with the compilation of the EIA and EMP reports for the Lonshi Copper Mine
Licensing of various water uses at the South Deep Mine in the North West Province (2009)	Project assistant. Assistant with water use licensing application.
Stakeholder engagement process for the Everest Platinum Mine as part of an EMP amendment to the extension of mining activities and changes to surface infrastructure in the Mpumalanga Province (2009)	Project assistant. Assistance with the stakeholder engagement process.
Stakeholder engagement process for the EIA and EMP amendment process for the new Northern Cape Manganese Company Mine (2009)	Project assistant. Assistance with the stakeholder engagement process.

EAPASA

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Environmental Assessment Practitioners Association of South Africa

Advancing environmental assessment practice in South Africa



Email: registrar@eapasa.org / Website: www.eapasa.org

Mrs Natasha Smyth
11B, Henry Road, Rivonia
Standalone house
Johannesburg
2129

Sent by email to: nsmyth@slrconsulting.com

Dear Mrs Smyth

Registered Environmental Assessment Practitioner: Number 2020/3035
Natasha Holly Smyth : South African ID 8610080193087

The Environmental Assessment Practitioners Association of South Africa (EAPASA) herewith certifies that Natasha Holly Smyth is a Registered Environmental Assessment Practitioner (EAP) in accordance with the prescribed criteria of Regulation 15.(1) of the Section 24H Registration Authority Regulations (Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the National Environmental Management Act (NEMA), Act No. 107 of 1998, as amended).

Your registration is duly authorised by EAPASA as the single Registration Authority for EAPs in South Africa (appointed as per Regulation No. 104, Gazette No. 41434 of 8 February 2018, in terms of section 24H(3)(a) of the NEMA). Your status as a Registered EAP is displayed in the 'EAP Register' - please find your name and contact email address at

<https://registration.eapasa.org/registered-practitioners>

Your registration is effective for a period of five years from 19 February 2021, and expires on 19 February 2026. The renewal of your registration in 2026 will be contingent on you having met the requirements of EAPASA's Continuing Professional Development (CPD) policy during each year of registration.

As a Registered EAP you are required to uphold the EAPASA Code of Ethical Conduct and Practice in your professional endeavours, towards the goal of quality assurance in environmental assessment practice.

Please accept my congratulations on your registration.

Best regards

Dr Richard Hill
Registrar

Date: 19 February 2021

CURRICULUM VITAE



CHANÉ (PRETORIUS) COETZEE

ENVIRONMENTAL ASSESSMENT PRACTITIONER

QUALIFICATIONS

BSc Hons 2011

BSc 2010

Short Courses:

Geography

Tourism (Zoology and Geography)

- Environmental Law for Environmental Managers, North West University, 2015
- Water Management in Mining University of the Free State, 2014
- Mining Closure & Rehabilitation North West University, 2013

EXPERTISE

- Environmental & Social Impact Assessments and Management Plans
- Environmental Compliance Audits
- Social Management Plans (Influx, grievance, Stakeholder engagement etc.)
- Management and facilitation of permitting and licensing processes
- IFC Compliance
- Management and facilitation of stakeholder engagement processes
- Fatal Flaw Assessments

Chané joined SLR in May 2022 and has 10 years' experience in coordinating and managing various Environmental and Social studies in the mining, infrastructure and energy sectors.

Her key experience includes the management and compilation of local and international Environmental and Social Impact Assessments and various Management Plans, in compliance with in-country and international standards.

Projects that she has been engaged in are located in South Africa, Zimbabwe, Democratic Republic of Congo, Mozambique, Mali, and Ghana.

PROJECTS

Key aspects of Chané's recent project experience are summarised below.

Hlagisa Wildfontein Mine – Mpumalanga (2022)

Application for the renewal of the WUL for the purpose of rehabilitation and closure.

Prieska Copper Zinc Mine – Northern Cape (2021-2022)

Lead Environmental Practitioner and author for the amendment of the IWUL. This also includes a separate BA report for Irrigation activities for more sustainable water use as part of dewatering activities.

Hlagisa Wildfontein Mine – Mpumalanga (2022, 2021, 2020 and 2019)

Lead external auditor for the EA, IWUL and EMP reporting requirements together with the annual update of the IWWMP and RSIP.

Prieska copper zinc mine (2021-2022)	Lead Environmental Practitioner and author for the amendment of the IWUL. This also includes a separate BA report for Irrigation activities for more sustainable water use as part of dewatering activities.
Prieska Copper Zinc Mine – Northern Cape (2020-2022)	Environmental advisor to the client with respect to its Projects in the Northern Cape Province. Specifically, the scope of the advisory role is broadly to assist the mine in performing its environmental management obligations up to the start of the construction phase activities. Undertaking a monthly internal site audit of the Project site areas and reporting on findings as well as monthly water monitoring and reporting.
Kobada Gold Project – Mali (2019-2021)	Lead Environmental Practitioner for the completion of a full ESIA aligned with the requirements of the host country legislation as well as international standards and best practice guidelines, including the Equator Principles and associated IFC Performance Standards, as well as the International Cyanide Management Code. This included contributions to the PFS, DFS and 43-101.
Asanko Gold (2020)	Sustainable Development Risk Assessment and legal opinion for a PFS.
Tri-K Gold Project- Guinea - (2019 - 2020)	Lead Environmental Practitioner responsible for the compilation of numerous management action plans in support of the IFC EIA requirements.
Triple Object Systems – South Africa (2019)	Lead Environmental Assessment Practitioner for the undertaking of a Basic Assessment Report in support of a Waste Management Licence for a recycling facility in Centurion, Gauteng.
Kranspan Project – South Africa (2018 - 2020)	Environmental Consultant for an environmental authorisation, waste management license and integrated water use licence for a proposed surface and underground coal mine, near Carolina in the Mpumalanga Province.
Northern Cape Prospecting – South Africa (2018 -2020)	Environmental Consultant for three environmental authorisation processes in support of prospecting right applications, near Copperton and Marydale in the Northern Cape Province.
Prieska Zinc Copper Project – South Africa (2017-2018)	Environmental Consultant for an environmental authorisation, waste management license and integrated water use licence for the proposed re-establishment of the Prieska Copper Mine, near Copperton in the Northern Cape Province.
Prieska Zinc Copper Project (Vardocube Section)– South Africa (2018)	Environmental Consultant for an environmental authorisation, and integrated water use licence for the proposed re-establishment of the Prieska Copper Mine, near Copperton in the Northern Cape Province
Hlagisa Wildfontein Mine Expansion Project – 2018	Environmental Consultant for a Section 102 amendment for the expansion of the Wildfontein Mine.
Hlagisa Wildfontein Mine Iwwmp	Environmental Practitioner responsible for the compilation of an Integrated Water and Waste Management Plan for the Wildfontein Mine.

<p>Springs Fresh Produce Market Expansion Project – South Africa (2016-2017)</p>	<p>Environmental Consultant for an environmental authorisation for the expansion of the Springs Fresh Produce Market.</p>
<p>Lenasia South Hospital Project – South Africa (2016)</p>	<p>Environmental Consultant for an environmental authorisation, waste management license and atmospheric emission license Environmental Consultant for an environmental authorisation, waste management license and atmospheric emission license for the conversion of a community health centre into a Level 1 District Hospital.</p>
<p>Kalana Gold Project – Mali (2015-2016)</p>	<p>Environmental Consultant for an IFC-compliant ESIA and RAP for a proposed gold mine and processing plant. The Project included management of various specialist sub-consultants and a local consultant responsible for the social studies as well as assistance with the completion of a Resettlement Action Plan (RAP).</p>
<p>Esaase Gold Mine Project - Ghana (2013 – 2014)</p>	<p>Assistance with the project coordination of an EIA for a greenfield gold mine in Ghana. The Project included management of various specialist studies and coordination of the public participation process and social impact assessment. An online project legal register was developed.</p>
<p>Hwange Power Station - Zimbabwe (2013 – 2014)</p>	<p>Project management of the comprehensive environmental and social audit of the Hwange Power Station. The audit assessed compliance of the power station to both in-country legal requirements and the IFC performance standards. Studies were coordinated between experts in Australia, South Africa and Zimbabwe. A prioritized management plan was compiled with recommendations to address the findings of the audit.</p>
<p>Fekola Gold Project - Mali (2013)</p>	<p>Project assistance with the completion of an IFC-compliant ESIA for a proposed gold mine and processing plant.</p>
<p>Estima Coal Project -Mozambique (2013)</p>	<p>Assisted with the fatal flaw analysis for the proposed Chitima Northern Conveyor Line.</p>
<p>Renewable Energy Guideline - South Africa (2012)</p>	<p>Assist with the compilation of a guideline document for the Renewable Energy Sector on the listed activities in the Environmental Impact Assessment Regulations published under the National Environmental Management Act 107 of 1998.</p>
<p>Wilge / Phola Sewer And Water Pipeline Development Project – Mpumalanga, South Africa (2012)</p>	<p>Conducting the water use license application (WULA) process for Section 21 (c) and (i) water uses, including compilation of all DWA application forms and assisting with compilation of the technical report.</p>
<p>Solar Park Integration Project - Northern Cape, South Africa (2012)</p>	<p>Coordination and compilation of three Basic Assessment Reports (BAR) and associated EMPr for the Solar Park Integration Project consisting of:</p> <ul style="list-style-type: none"> • 3 x 132kV lines and 2 x 20MVA Transformers for the Solar Park Site • 3 x 132kV lines for the independent power producers in Solar Park • 5 x 132kV lines for Solar Park • 2 x (±) 25km 132kV lines to Gordonia Substation (Upington)

Environmental Impact Assessment For The Kusile 60 Year Ash Disposal Facility - Mpumalanga, South Africa (2012)

Project coordination of an EIA for an ash disposal facility including management of specialist studies, report compilation and assistance with public participation. A desktop site selection study was undertaken as part of the EIA.

Medupi Power Station Oemp – Limpopo, South Africa (2012)

Compilation of an Operational Environmental Management Plan for the Medupi Power Station.

CURRICULUM VITAE



REINETT MOGOTSHI

SENIOR ENVIRONMENTAL CONSULTANT

Environmental Management, Planning and Approvals,
Africa

QUALIFICATIONS

PgDi	2018	Postgraduate Diploma in Environmental Management
BSc (Hons)	2014	BSc (Hons) Environmental Analysis and Management
BSc	2013	BSc Environmental Sciences

EXPERTISE

- Environmental and Social Impact Assessment
- Strategic Environmental Assessments
- Geographic Information System
- Stakeholder Engagement
- Screening Studies

Reinett has 6 years' experience in undertaking Environmental Impact Assessments in the agriculture, oil and gas, telecommunication, infrastructure, and renewable energy and mining sector. She has experience working in South Africa, Namibia, Equatorial Guinea, Angola, Benin, Zambia and Zimbabwe. Reinett's primary focus has been in the execution and management of environmental authorisation processes, waste management and Environmental Management Programs as required by environmental legislation.

PROJECTS

Projects that Reinett has worked on at SLR and prior to SLR

Tharisa Closure Amendment Project (2019-Present)

Project consultant for the Tharisa closure and rehabilitation optimisation project. Tharisa is planning to amend its current closure commitments. SLR has been appointed to support the client team with environmental impact assessment, rehabilitation and closure planning and financial provision calculations.

UMK Closure Amendment Project (2020-Present)

Project consultant for the UMK closure and rehabilitation optimisation project. UMK is planning to amend its current closure commitments. SLR has been appointed to support the client team with environmental impact assessment, rehabilitation and closure planning and financial provision calculations.

Closure of the Wolvekraal Kareepoort prospecting right in the North West province (2020)

Project manager for the Wolvekraal Kareepoort prospecting right closure. Inkosi is planning the closure of its prospecting right. SLR has been appointed to support the client team with environmental impact assessment, rehabilitation and closure planning and financial provision calculations.

Closure of Inkosi prospecting rights in the North West Province (2019-2020)

Project manager for the Inkosi prospecting right closure. Inkosi is planning the closure of its prospecting right. SLR has been appointed to support the client team with environmental impact assessment, rehabilitation and closure planning and financial provision calculations.

Closure of Imbasa prospecting right in the North West Province (2019-2020)	Project manager for the Imbasa prospecting right closure Imbasa is planning the closure of its prospecting right. SLR has been appointed to support the client team with environmental impact assessment, rehabilitation and closure planning and financial provision calculations.
African Infrastructure Investment Managers (2019)	Commercial project manager for the Environmental and Social Impact Assessment for the Maria Gletta Power Plant in Benin. Reinett was responsible for research and updating the ESIA. She then took on the financial and technical role towards the end of the project.
Confidential Oil and Gas Project (2019)	Project consultant for the Environmental Impact Study for a 2D Seismic Data Acquisition in the Benguela and Namibe Basins in Angola. Reinett 's role entailed compilation of the report.
METISS (2018-2019)	Assistant project manager for the Environmental Impact Assessment for Metiss subsea telecommunications cable to be landed near Amanzimtoti in South Africa.
Indian Ocean Xchange (2018-2019)	Project consultant for the Environmental Impact Assessment for IOX subsea telecommunications cable to be landed near the East London IDZ, South Africa.
Eni (2018-2019)	Stakeholder Engagement Support for the Environmental and Social Impact Assessment for the offshore exploration drilling within Block ER236, Off the East Coast of South Africa. Reinett supported the project by managing the stakeholder database and recording comments received from interested and affected parties.
Noble Energy (2018)	Environmental Impact Assessment for Alen Gas Export Pipeline in Equatorial Guinea. Reinett was responsible for research and report compilation.
Distell Group Limited, South Africa (2018)	Project manager for the registration of biogas production for the Distell wastewater treatment plant.
Confidential Power Project (2018)	Project consultant for the Power Options Analysis for a mine in Madagascar. Reinett contributed to the power options analysis by reviewing the IFC General EHS guidelines, IFC sector-specific guidelines for solar and wind, World Bank Pollution Prevention and Abatement Hand and the AfDB Integrated Safeguards System.
Confidential Oil and Gas Project (2018)	Project consultant for the update of Environmental Impact Assessment for Offshore Seismic in Namibia.
Confidential Mining Project (2018)	Project consultant for the update of a Resettlement Action Plan in Limpopo. Reinett supported the project by providing assistance with reviewing policies, data capturing, mapping area of influence.
Guma Projects (2018)	Project consultant for the Part 1 Amendment Application for Three Olyven Kolk Photovoltaic Power Plants within Siyanda District Municipality, Northern Cape, South Africa. Reinett was involved in the completion of the applications for amendment, engagement with the competent authority and writing the motivation that there has been no change in the receiving environment for the project.

Letsatsi Solar Power (2018)	Project consultant for the Draft Retrospective Amendment Report Version 2 for the Letsatsi (Previously Southdrift) Solar Power Facility, Near Soetdoring Dam, Free State Province. Reinett was involved in drafting the amendment report and stakeholder engagement.
Juwi South Africa (2017)	Project manager for the Scoping and Environmental Impact Assessment for the proposed development of 300 MW Kap Vley Wind Energy Facility and supporting electrical infrastructure near Kleinzee in South Africa. Reinett was involved in the management of the Kap Vley Wind Energy facility project. Her role entailed the management of a specialists, reporting and stakeholder engagement process.
Department of Environmental Affairs (2017)	Project officer for Phase II of the Strategic Environmental Assessment for Wind and Solar PV Energy Development Projects in South Africa. Reinett's role entailed the management of extensive stakeholder engagement, sensitivity mapping for Bats and contracting of specialists a specialist.
Jam Rock (Pty) Ltd (2017)	Project manager for the Basic Assessment for the proposed development of a chicken broiler facility on Portion 40 of the Farm Jonathan 175- JQ near Brits in the North West Province. Reinett's role involved project management and support, report writing, compilation of socioeconomic baseline studies and stakeholder engagement.
Department of Environmental Affairs (2015-2017)	GIS Technician for the Special Needs and Skills Development Programme: Programme management. Reinett was responsible for mapping of the distribution of application received under the Special Needs Programme. She also produced thematic sensitivity maps using ArcGIS for the projects within the programme.
Alphomega Farming (2016)	Project manager for the Basic Assessment and Waste Management Licence for the proposed development of a pig production enterprise on Portion 18 of Portion 3 of the Farm Poortje 340-IQ, Vereeniging in South Africa. Reinett's role involved project management and support, report writing, compilation of socio-economic baseline studies and stakeholder engagement.
MEMBERSHIPS	
SACNASP	Registered with the South African Council for Natural Scientific Professions as a Candidate Natural Scientist (Cand.Sci.Nat.) in Environmental Science (Reg. No. 117924)
IAIA	Member of the International Association for Impact Assessments (IAIA), South African Affiliate since 2017

CURRICULUM VITAE



RIZQAH BAKER

SENIOR ENVIRONMENTAL CONSULTANT

Environmental Management, Planning & Approvals, Africa

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Cell: 082 496 7398 | Email: rbaker@slrconsulting.com

Driver's Licence: Code B

Languages: English (written, spoken), Afrikaans (spoken)

QUALIFICATIONS

BA Hons	2016	Environmental & Geographical Science
BA	2015	Development & Environmental Studies

EXPERTISE

- Environmental Impact Assessment
- Environmental Control Officer/Environmental Auditing
- Atmospheric Emissions Licencing

Rizqah Baker is a consultant with five years of experience working in the environmental field and has worked both in the public and private sectors. She worked in the Environmental & Heritage Management Department of the City of Cape Town (CCT); her roles included environmental auditing and providing comment on various Basic Assessment Reports (BARs), Method Statements, Environmental Management Programmes (EMPrs) and development proposals. Since joining SLR, Rizqah has worked on a number of BARs and Environmental Impact Reports (EIRs) in a range of sectors, specifically the Mining, Built Environment, Oil & Gas and Infrastructure sectors and has performed the role of Environmental Control Officer (ECO) for a variety of projects.

PROJECTS

Environmental Impact Assessments

The South African Breweries (Pty) Ltd (SAB) – Proposed expansion of the Prospecton Brewery, Durban (Current)

Part 2 (Substantive) Environmental Authorisation (EA) amendment process for proposed expansion of the Prospecton Brewery in Athlone Park, Durban, KwaZulu-Natal. The project also entails the application for an Atmospheric Emissions Licence (AEL) and Water Authorisation process. Rizqah is the Project Manager and her roles included the management of all environmental processes and specialists, undertaking of the public participation process (PPP) and report compilation.

SAB – Proposed Wet Maize Mill, Johannesburg (Current)

Part 1 (Non-Substantive) EA amendment process for proposed wet maize mill, Johannesburg, Gauteng. Rizqah is the Project Manager and her roles included the management of the environmental process, undertaking of the PPP and application compilation.

South32 Limited (South32) – Proposed railway infrastructure at the Wessels Mine, Hotazel (Current)

Basic Assessment (BA) process for the proposed railway infrastructure at the Wessels Mine, Hotazel, Northern Cape. Rizqah is the Project Manager and her roles included the management of the environmental process and specialists, undertaking of the PPP and report compilation.

<p>Impala Platinum Limited (Impala) – Proposed parking area at the Shaft 16 Complex, Rustenburg (Current)</p>	<p>BA process for the proposed parking area at Impala’s Shaft 16 Complex, Wustenburg, North West. Rizqah is the Project Manager and her roles included the management of the environmental process and specialists, undertaking of the PPP and report compilation.</p>
<p>Pilanesberg Platinum Mines (Pty) Ltd (PPM) – Proposed infrastructural amendments at the Pilanesberg Platinum Mine (Current)</p>	<p>BA process for the proposed amendments to infrastructure at the Pilanesberg Platinum Mine, North West. Rizqah acted as the Assistant Project Manager and her roles included the compilation of the BAR and general project management.</p>
<p>Northam Platinum Limited (Northam) – Proposed Air Quality Offset Plan for the Zondereinde Smelter Complex, Northam (Current)</p>	<p>PPP for the implementation of Northam’s Air Quality Offset Plan for its Zondereinde Smelter Complex, Northam, Limpopo. Rizqah is the Project Manager and her roles included the management of the PPP and compilation of the Public Participation Report.</p>
<p>PPM – Proposed prospecting right on portion 5 of the farm Ruighoek (Current)</p>	<p>BA process for the proposed prospecting right on the farm Ruighoek, North West. Rizqah acted as the Assistant Project Manager and her roles included the compilation of the BAR and general project management.</p>
<p>Tshipi é Ntle Manganese Mining (Pty) Ltd (Tshipi) – Proposed alternative closure and rehabilitation strategy at the Tshipi BORwa Mine, Hotazel (Current)</p>	<p>BA process for the proposed alternative closure and rehabilitation strategy project at the Tshipi Borwa Mine, Hotazel, Northern Cape. Rizqah acted as Project Manager and her roles included the management of the environmental process and specialists, compilation of BAR and undertaking of PPP.</p>
<p>Mokala Manganese (Pty) Ltd – Proposed changes to mine infrastructure layout, Hotazel (Current)</p>	<p>Scoping, Environmental Impact Assessment (EIA) and EMPr Amendment process for the proposed changes to the mine infrastructure layout at Mokala Mine, Northern Cape. Rizqah acted as Assistant Project Manager and her roles included assistance with the compilation of the Scoping Report and EIR.</p>
<p>Vygekraal Cemetery Board – Proposed expansion of the Vygekraal cemetery, Rylands (Current)</p>	<p>Part 2 (Substantive) EA Amendment process for the proposed expansion of the Vygekraal Cemetery, Rylands, Western Cape. The project also entailed a water authorisation process. Rizqah acted as Assistant Project Manager and her roles included the compilation of the Amendment Report, undertaking of PPP and the management of the water authorisation process.</p>
<p>EFG Engineers for the Western Cape Government (WCG): Department of Transport and Public Works (DTPW) – The improvement of Trunk Road 28, Section 1 (R43) between Botrivier and Hermanus (2019 - current)</p>	<p>BA process for the proposed improvement of a section of the R43 between Botrivier and Hermanus, Western Cape. Rizqah acted as Assistant Project Manager and her roles included the compilation of the BAR, facilitation of the required PPP, the management of the appointed specialists and general project management.</p>
<p>De Beers Marine (Pty) Ltd – Prospecting Right application for offshore marine diamonds in Sea Concessions 4C and 5C, West Coast of South Africa (2021)</p>	<p>Scoping and EIA process for the proposed offshore prospecting activities in Sea Concessions 4C and 5C, off the West Coast of South Africa. Rizqah acted as Assistant Project Manager and her roles entailed the compilation of the Scoping Report, the undertaking of the required PPP and the management of specialist input.</p>

<p>Tharisa Minerals (Pty) Ltd – The proposed addition on of waste rock storage, North West (2021)</p>	<p>Scoping, EIA and EMPr Amendment process for the proposed addition of waste rock storage at the Tharisa Mine, North West. Rizqah acted as Assistant Project Manager and her roles included assistance with the compilation of the Scoping, EIA and EMPr Amendment Reports.</p>
<p>Impala – The proposed increase of the flash dryer capacity and associated feed circuit modifications, North West (2021)</p>	<p>BA process for the proposed increase of the flash dryer capacity and associate feed circuit modifications at the Impala Smelter Complex in the North West. Rizqah acted as project assistant and assisted with the compilation of the BAR.</p>
<p>Marula Platinum Limited – Addition of two ventilation shafts at the Marula Platinum Mine, Limpopo (2021)</p>	<p>Scoping, EIA and EMPr Amendment process for the proposed addition of two ventilation shafts at the Marula Platinum Mine, Limpopo. Rizqah acted as Project Assistant and assisted with the compilation of the EMPr Amendment Report and the required public participation process.</p>
<p>AECOM SA (Pty) Ltd (AECOM) – The rehabilitation of the Distillery Road Bridge, Stellenbosch (2021)</p>	<p>BA process for the proposed rehabilitation of the Distillery Road Bridge, Stellenbosch, Western Cape. Rizqah acted as Assistant Project Manager and her roles included the compilation of the BAR, the undertaking of the required PPP, the appointment and management of specialists and general project management.</p>
<p>Atterbury – The construction of a fuel station within the Southern Precinct of Richmond Park, Milnerton (2021)</p>	<p>BA process for the proposed construction of a fuel station within the Southern Precinct of Richmond Park, Milnerton, Western Cape. Rizqah acted as Assistant Project Manager and her roles included the compilation of the BAR and the undertaking of the required PPP.</p>
<p>Mortar SA (Pty) Ltd (Mortar SA) – EA Amendment process for a change in fuel used in operations, Darling (2021)</p>	<p>Part 1 (Non-Substantive) EA Amendment process for the change in fuel used in the operations at Mortar SA’s mortar processing facility. Rizqah acted as Project Manager and her roles included general project management, management of specialists and compilation of the EA Amendment application form.</p>
<p>Zevocept (Pty) Ltd – Development of a borrow pit, Grotto Bay (2020)</p>	<p>BA process for the proposed development of a borrow pit on Farm Modder Rivier, Grotto Bay, Western Cape. Rizqah acted as Assistant Project Manager and her roles included the compilation of the BAR, the undertaking of the required PPP and the management of the appointed specialists.</p>
<p>Aurecon South Africa (Pty) Ltd for the South African National Roads Agency SOC Limited (SANRAL) – Upgrade of N14/3, Kakamas (2020)</p>	<p>BA process for the proposed upgrade of a 1.4 km stretch of the N14 Section 3 from Kakamas (km 0.0) to the Orange River (km 1.4), Kakamas, Northern Cape. Rizqah was the Project Manager and her roles included the compilation of the BAR, the undertaking of the required PPP, the management of specialist input and general project management.</p>
<p>Aurecon South Africa (Pty) Ltd for SANRAL – Upgrade of N1/4 and development of borrow pits, Matjiesfontein (2020)</p>	<p>BA process for the proposed upgrade of a 17 km stretch of the N1 Section 4 from Monument River (km 46.00) to Doorfontein (km 63.00), including the improvement of the Matjiesfontein intersection and development of additional borrow pits, Matjiesfontein, Western Cape. Rizqah acted as Assistant Project Manager and her roles included the compilation of the BAR and the undertaking of the required PPP.</p>
<p>GIBB (Pty) Ltd for the WCG: DTPW – Proposed river erosion protection measures for the Trunk Road34 road embankment, Swart River bridge, Prince Albert (2020)</p>	<p>EMPr amendment process for the proposed construction of river erosion protection measures for the Trunk Road 34 road embankment, Swart River bridge in Prince Albert, Western Cape. Rizqah’s role entailed the amendment of the existing Construction EMPr in accordance with the competent authority’s recommendations/requirements.</p>

<p>TOTAL E&P South Africa B.V – Exploration activities in Block 11B / 12B for oil and gas offshore the South Coast of South Africa (2019)</p>	<p>Social Baseline Study and Social Impact Assessment (SIA) for the proposed exploration for oil and gas in License Block 11B / 12B offshore the South Coast of South Africa. Rizqah acted as the Assistant Project Manager and assisted with the undertaking of interviews with key stakeholders, the desktop review of information for the Social Baseline Study and assisted in the compilation of the SIA report.</p>
<p>Saldanha Bay IDZ Licensing Company SOC Ltd – The storage of hazardous substances at the Saldanha Bay IDZ (2019)</p>	<p>Scoping and EIA process for fuel bunkering services at the oil and gas offshore service complex within the Saldanha Bay IDZ, Western Cape. Rizqah acted as Assistant Project Manager and assisted with the compilation of the Scoping Report and EIR and the facilitation of the PPP.</p>
<p>Saldanha Bay IDZ Licensing Company SOC Ltd – The development of a used lubricant oil recycling facility at the Saldanha Bay IDZ (2019)</p>	<p>Scoping and EIA process for a used lubricant oil recycling facility at the oil and gas offshore service complex within the Saldanha Bay IDZ. Rizqah acted as Assistant Project Manager and assisted with the compilation of the Scoping Report and EIR and managed the required PPP.</p>
<p>De Beers Marine (Pty) Ltd – Prospecting Right application for offshore marine diamonds in Sea Concession 6C, West Coast, South Africa (2019)</p>	<p>Scoping and EIA process for the proposed offshore bulk sampling operations in Sea Concession 6C, off the West Coast of South Africa. Rizqah assisted the Project Manager with the compilation of the Scoping Report and EIR and the undertaking of the required PPP.</p>
<p>Royal HaskoningDHV Engineering and SMEC South Africa – Upgrade of the R61, KwaZulu-Natal (2019)</p>	<p>EIA process for the proposed upgrading of three sections of the R61, KwaZulu-Natal, between Mthamvuma River and Mbizana River. Rizqah’s role entailed the compilation of the EMPr associated with the EIR.</p>
<p>Environmental Control Officer Services/Environmental Auditing</p>	
<p>SAB – The Construction of a water pipeline, Caledon, Western Cape, South Africa (2020)</p>	<p>ECO services for the construction of a water pipeline to augment water supply to the SAB’s plant in Caledon, Western Cape. Rizqah acted as the ECO, ensuring that the contractor complied with the Construction EMPr.</p>
<p>EFG Engineers for WCG: DTPW – The upgrade of R310 between the N2 and Vlaeberg Road (2020)</p>	<p>ECO services for the upgrade of the R310 (Baden Powell Drive) between the N2 and Vlaeberg Road, Western Cape. Rizqah acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMPr.</p>
<p>Tshipi – The construction of a 132kV powerline and 11kV/132kV substation, Hotazel (2020)</p>	<p>ECO services for the construction of a 132kV loop-in/loop-out ferrum powerline and associated 11kV/132kV substation in Hotazel, Northern Cape. Rizqah acted as the ECO and was responsible for ensuring the contractor complied with the EMPr. Rizqah’s role also entailed the compilation of various permit applications for the removal of protected flora and fauna for the Project.</p>
<p>AECOM– Development of a Waste Transfer Facility, Langebaan (2020)</p>	<p>ECO services for the development of a Waste Transfer Facility, Langebaan, Western Cape. Rizqah acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMPr.</p>
<p>HHO Africa for CCT: Transport and Urban Development Authority (CCT: TDA) – The upgrade of the R44 from Beach Road to Main Road, Somerset West (2020)</p>	<p>ECO services for the upgrade of the R44 (De Beers Interchange) between Beach Road and Main Road, Somerset West, Western Cape. Rizqah acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMPr.</p>

<p>Bergstan South Africa – The construction of emergency services in Imizamo Yethu, Hout Bay (2020)</p>	<p>ECO services for the construction of emergency services in Imizamo Yethu, Hout Bay, Western Cape. Rizqah acted as the ECO and was responsible for ensuring the contractor complied with the CCT Environmental Management Specifications.</p>
<p>New Age – Exploration activities in Algoa-Gamtoos Block off the East Coast of South Africa (2020)</p>	<p>Environmental Audit Report for exploration activities in the Algoa-Gamtoos License Block off the East Coast of South Africa. Rizqah’s role entailed the compilation of the Environmental Audit Report.</p>
<p>Africa Energy Corporation – Exploration activities in Block 2B off the Coast of South Africa (2020)</p>	<p>Environmental Audit Report for exploration activities in License Block 2B off the Coast of South Africa. Rizqah’s role entailed the compilation of the Environmental Audit Report.</p>
<p>We Buy Cars Properties (Pty) Ltd – The construction of a warehouse, Brackenfell (2019)</p>	<p>ECO services for the construction of the We Buy Cars warehouse in Brackenfell, Western Cape. Rizqah acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMPr.</p>
<p>Anadarko Petroleum Corporation – Exploration activities in Block 5/6/7 off the South-West Coast of South Africa (2019)</p>	<p>Environmental Audit Report for exploration activities in License Block 5/6/7 off the South-West Coast of South Africa. Rizqah’s role entailed the compilation of the Environmental Audit Report.</p>
<p>Atmospheric Emissions Licencing</p>	
<p>Northam – Amendment of the AEL for the Northam Platinum Mine, Northam (Current)</p>	<p>AEL amendment application for the Northam Platinum Mine, Limpopo. Rizqah assisted with the compilation of the AEL application and management of the required PPP.</p>
<p>Northam – AEL renewal for the Northam Platinum Mine, Northam (Current)</p>	<p>AEL renewal application for the Northam Platinum Mine, Limpopo. Rizqah assisted with the compilation of the AEL application.</p>
<p>Lead and Solder cc (LASS) – AEL renewal for a lead and solder factory in Bellville (2022)</p>	<p>AEL renewal process. Rizqah’s role entailed the facilitation of the PPP and compilation of the Public Participation Report.</p>
<p>Clay Industry cc – AEL renewal for a clay brick factory in Fisantekraal (2020)</p>	<p>AEL renewal for the clay brick factory in Fisantekraal, Western Cape. Rizqah’s role entailed the compilation of the AEL application, undertaking the PPP and compilation of the Public Participation Report.</p>
<p>LASS – Atmospheric Emissions Licence for a lead and solder factory in Bellville, Western Cape (2019)</p>	<p>AEL application process. Rizqah’s role entailed the compilation of the AEL application.</p>
<p>Other</p>	
<p>Mortar SA – Applicability Checklist for the change in fuel used in operation, Darling (2021)</p>	<p>Applicability Checklist for the change in fuel used in the operations at Mortar SA’s mortar processing facility, Darling, Western Cape. Rizqah acted as Project Manager and her roles included general project management, management of specialists and compilation of the Applicability Checklist.</p>

HARPS Holdings (Pte) Ltd – Operations EMP for Saldehco Ship-to-Ship Bunkering (2021)	Compilation of an Operations EMP for ship-to-ship bunkering operations in the Port of Saldanha, Western Cape. Rizqah assisted with the compilation of the Operations EMP.
Simcha Trust – The consolidation of Erven 68 and 69 in Bakoven (2020)	Applicability checklist compilation for the proposed consolidation of Erven 68 and 69, Bakoven, Western Cape. Rizqah's role entailed the compilation of the Applicability Checklist and the liaison with the appointed architects.
Daveng Consulting Engineers – The reconstruction of the pedestrian walkway, Westlake (2019)	Part 1 (Non-Substantive) EA amendment process of the reconstruction of the pedestrian walkway in Westlake, Western Cape. Rizqah assisted with compilation of the EA amendment application process and facilitated discussions between specialists around design.
KNPS KIPTS, Melkbosstrand (2017)	Provided comment on the BAR and Maintenance Management Plan (MMP) for the proposed development of the Koeberg Insulator Pollution Testing Station (KIPTS) at Koeberg Nuclear Power Station (KNPS), Melkbosstrand, Western Cape, on behalf of the CCT: Environmental Management Department.
Health Care Waste Facility, Atlantis Industrial, Atlantis (2017)	Provided comment on the BAR for the proposed development of a health care waste facility in Atlantis Industrial, Western Cape, on behalf of the CCT: Environmental Management Department.
Diesel Tank Expansion at the KNPS, Melkbosstrand (2017)	Commented on the BAR for the proposed diesel tank expansion at Koeberg Nuclear Power Station, Melkbosstrand, Western Cape on behalf of the CCT: Environmental Management Department.
Stonewood Mixed-Use Estate, Kraaifontein (2017)	Provided comment on the BAR for the proposed development of Stonewood Mixed-Use Development in Kraaifontein, Western Cape, on behalf of the CCT: Environmental Management Department.
SANCCOB Expansion, Table View (2017)	Assisted in environmental auditing for the facility expansion of the Southern African Foundation for the Conservation of Coastal Birds (SANCCOB), Table View, Western Cape.
Portuguese & Italian Clubs, Brooklyn (2017)	Conducted environmental audits of the Italian and Portuguese Clubs, Brooklyn, Western Cape, as required as part of the lease agreements between the CCT (lessor) and the Clubs (lessee).
OEMP, Big Bay (2017)	Reviewed and updated the Operational Environmental Management Plan (OEMP) of Big Bay, as required as part of the issued EA of the Big Bay Developmental Area, Western Cape.
MEMBERSHIPS	
IAIAAsa	Member of the International Association for Impact Assessments (South Africa).

TRAINING

IAIA (2020)	Completed the Foundations of Impact Assessment course of IAIA’s Professional Development Programme.
Pinpoint Health and Safety (2019)	Completed the Defensive Driving course.

AWARDS

USIP Certificate of Commendation (2018)	Received a Certificate of Commendation during the Urban Sustainability Internship Program (USIP) with the CCT for outstanding quality of work during the program.
Golden Key Honour Society (2014, 2015)	Received an invitation to join the Golden Key Honour Society (top 15% of candidates in a specific programme registered for Undergraduate Studies)