



## Dirk Pretorius, *Pr.Sci.Nat., Reg.EAP*

### Environmental Scientist

Dirk is a Director at EnviroAgri (Pty) Ltd, where he works as environmental scientist, auditor and assessment practitioner specifically focussing on the agricultural and rural sector. He is currently based in the Overberg region in the Western Cape of South Africa. He started out as an Environmental Assessment Practitioner (EAP) at EnviroLogic in 2010 and in 2012 took the opportunity at one of South Africa largest consultancies, Aurecon, as environmental scientist, where he worked until 2018. In 2019 he founded EnviroAgri (Pty) Ltd, an environmental consultancy, which caters specifically for the agricultural and rural sector.

He has worked on the environmental side of projects in most of South Africa's nine provinces as well East Africa. Key sectors in which Dirk has worked include: agriculture, renewable and non-renewable energy; roads; water infrastructure; sewage and waste treatment; wetland conservation; urban and rural planning, housing of which many has had direct or indirect application to the agricultural and rural sector. The scope of work on many of these projects, include undertaking of legislative processes to obtain environmental approvals, licences or permits. Furthermore, many of these projects included establishing environmental management programmes and plans to facilitate sustainable development, the auditing thereof and monitoring environmental compliance.

Key projects he has worked on include Environmental Impact Assessments (EIAs) and Environmental Management Programmes (EMPrs) for renewable energy projects, particularly wind and solar, in the Northern, Eastern and Western Cape Provinces of South Africa as well as Tanzania. He has also been involved for several years with upgrading and maintenance of rural gravel roads throughout the Western Cape Province as well as road projects in the Northern Cape. Dirk has worked on the renowned Working for Wetlands programme specifically in the Free State and Limpopo Provinces but has also been involved in several other provinces. Dirk has gained valuable experience as working on a myriad of EIAs and BAs and applications for a Reverse Osmosis (RO) desalination plant at Port Nolloth, several sewage and waste facility projects in the Northern Cape and Western Cape. He has also been involved with auditing of waste sites and infrastructure developments throughout South Africa, and Environmental Control Officer (ECO) work in the Eastern and Western Cape. His international experience includes environmental input in to the development of a master plan for the Mtwara/Mikindani Municipality in Southern Tanzania to support the spatial development initiative (SDI) on the Mtwara Gas to Industry project, as well as EIA for a drilling super base in Mtwara Port, Tanzania. He has also been involved with an EIA for one of the first proposed utility scales wind farms in southern Tanzania, near Makambako. Although not part of core teams, he has also done work on projects in Namibia and Mozambique.

Dirk obtained a Bachelor of Science in Conservation Ecology from the Stellenbosch University and a Master of Science in Zoology (Cum laude), at the Nelson Mandela University (NMU) where his dissertation focussed on the impact of the upstream oil and gas sector on sea turtles in East Africa. He is working towards becoming a specialist environmental advisor in the agricultural and rural sector within Southern Africa. He is registered as a professional natural scientist with the South African Council for Natural Scientific Professions (SACNSP), Environmental Assessment Practitioners Association of South Africa (EAPASA) and is a member of the International Association for Impact Assessments South Africa (IAIASA).

### Employment record

01/2019 – to date	Owner / Director, EnviroAgri
03/2018 – 2018/12	Sole proprietor, Environmental Advisor
08/2012 – 02/2018	Aurecon, Senior Environmental Scientist
03/2010 - 07/2012	Enviro Logic, Environmental Assessment Practitioner (EAP)

#### Qualifications

BSc Conservation Ecology  
MSc Zoology (Cum laude)

#### Professional Registration

Professional Natural Scientist,  
South African Council for Natural  
Scientific Professions (SACNASP)  
No. 400306/15  
Environmental Assessment  
Practitioners Association of South  
Africa (EAPASA)  
No. 2020/1612

#### Professional affiliation

Member, International Association  
for Impact Assessments South Africa  
(IAIASA)

#### Specialisation

Environmental Scientist,  
Practitioner and Auditor

#### Language

English and Afrikaans

#### Years in industry

+11

#### Cell

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## Experience

**De Aar, Castle to Hydra 400kV Overhead Transmission Line, Northern Cape, South Africa, 02/2022 – to date. Environmental Assessment Practitioner.** Basic Assessments for the proposed Castle to Hydra 400kV Overhead Transmission Line near De Aar in the Northern Cape. African Clean Energy Developments.

**Aberdeen Wind Energy Cluster, Eastern and Western Cape Province, South Africa, 11/2021 – to date. Environmental Assessment Practitioner.** Three Basic Assessments for the respective proposed Wind Energy Facilities including substations and Battery Energy Storage Systems near Aberdeen in the Eastern and Western Cape. African Clean Energy Developments.

**Environmental Audit of Southern Oil Limited (SOILL) Directive and Pre-compliance notice, Swellendam, Western Cape, South Africa, SOILL, 10/2021 – 11/2021, Environmental Auditor.**  
Environmental compliance audit of the 2020 rehabilitation plan on behalf of SOILL to meet requirements as stipulated in a section 28 (4) Directive and 31 (L) Pre-Compliance notice issued by DEA&DP.

**Kokerboom Transmission Lines 1, 2, 3 and 4, Khobab Switching Station, Northern Cape Province, South Africa, 05/2021 – 9/2021. Environmental Assessment Practitioner.** Three Basic Assessments for the respective proposed transmission lines and Switching Stations (substations) near Loeriesfontein in the Northern Cape. Subconsultant for Zutrari (Pty)Ltd undertaking environmental assessments for the proposed Kokerboom Wind Energy Facilities.

**Mykonos Sewer Pumpstation Rising Main Environmental Impacts Assessment, Langebaan, Western Cape Province, South Africa, 06/2020 – date. Environmental Assessment Practitioner (Reviewer).** Basic Assessment for a proposed Mykonos Sewer Pumpstation Rising Main.

**Port Nolloth East bulk water pipeline Environmental Impact Assessment, Northern Cape Province, South Africa, Richtersveld Municipality, 07/2020 – date. Environmental Assessment Practitioner (Reviewer).** Basic Assessment for a proposed bulk water pipeline east of Port Nolloth from a proposed wellfield to the existing bulk water reservoir.

**Environmental Screening Study for a proposed Fender maintenance and storage area, Saldanha, Western Cape, South Africa, Transnet Ports Authority, 05/2020 – 09/2020. Environmental Assessment Practitioner.**  
High level identification of potential environmental issues and legislative requirements associated with the proposed fender maintenance and storage area in the Port of Saldanha.

**Assessment of impacts related to Southern Oil Limited (SOILL) Directive and Pre-compliance notice, Swellendam, Western Cape, South Africa, SOILL, 03/2020 – 08/2020, Environmental Assessment Practitioner.**  
Assessment of impacts and undertaking of rehabilitation plan on behalf of SOILL to meet requirements as stipulated in a section 28 (4) Directive and 31 (L) Pre-Compliance notice issued by DEA&DP.

**Environmental Audit of Garden Cities Sunningdale Development (Blaauwberg City), Western Cape Province, South Africa, Garden Cities (in collaboration with Kijumbe Advisory Pty Ltd), 10/2019-12/2019, Environmental Auditor.**  
Environmental audit in accordance to Regulation 54(a)(3) of the EIA Regulations (GN No. 326 of 2017) in terms of the NEMA as it relates to the Blaauwberg City development. At the time of the audit 11 phases of the Sunningdale development had been completed since commencement 23 years ago with bulk services and infrastructural capacity sufficient for the next 15 to 20 years of expansion at Sunningdale (all these development phases were included in the audit).

**Environmental Audit of Milnerton Estates Parklands Development (Blaauwberg City), Western Cape Province, South Africa, Milnerton Estates (in collaboration with Kijumbe Advisory Pty Ltd), 10/2019-12/2019, Environmental Auditor.**  
Environmental audit in accordance to Regulation 54(a)(3) of the EIA Regulations (GN No. 326 of 2017) in terms of the NEMA as it relates to the Blaauwberg City development. At the time of the audit Milnerton Estates had been involved with developments in the area of the RoD for over 16 years and have completed the Parklands development. They were busy developing the Sandown and Rivergate phases which consist of residential, commercial, business, institutional and educational facilities as well as construction of Sandown road dualling and a station precinct (all these development phases were included in the audit).



**Western Cape Disaster Draught Disaster Management Table Mountain Group Strategic Well Field, Western Cape Province, South Africa, Aurecon South Africa, 02/2019 – to date, Environmental Auditor / Supervision**

The project is part of City of Cape Town effort to address future drought situations through drilling ultra-deep boreholes within the Hottentots-Holland Mountain catchment area. Responsible for and involved with environmental auditing and environmental supervision of drilling sites.

**Western Cape Disaster Draught Disaster Management, Western Cape Province, South Africa, Saldanha Bay Municipality, 07/2019 –03/2020, Environmental Scientist**

The project involved assisting the Saldanha Bay Municipality to address the drought situation through expansion of bulk water reservoir holding capacity and ancillary infrastructure including pipelines and road realignments. Responsible for drawing up Environmental Method Statements for the proposed activities in terms of the NEMA Section 30A directive.

**Botha Farm Scoping and Environmental Impact Assess for development of vineyards and chicken layer houses near Prieska, Northern Cape Province, South Africa, Oranjerivier Boerdery BK, 02/2019 – 3/2020. Environmental Assessment Practitioner.**

The project entailed an agricultural development on the Botha Farm, near the town of Prieska. The EIA included the establishment of approximately 43ha of vineyards for raisin production and 12 chicken layer houses. Responsible for drafting reports, impact assessment and GIS mapping.

**Western Cape Disaster Draught Disaster Management, Western Cape Province, South Africa, City of Cape Town, 11/2017 - 03/2018, Environmental Scientist**

The project involved assisting the City of Cape Town to address the eminent drought situation through purification of treated sewage water to potable standards (Macassar and Zandvliet Waste Water Treatment Works) and identification as well as drilling ultra-deep boreholes on the Cape Flats as well as within the Hottentots-Holland Mountain catchment area. Responsible for and involved with feasibility studies and environmental screening of proposed sites, environmental management plans, specialist and stakeholder engagement.

**EIA for proposed extension of ash disposal facilities at Kriel Power Station, Mpumalanga Province, South Africa, Eskom, 06/2016 – 03/2018, Environmental Scientist / Assessment Practitioner**

The project entailed an integrated EIA and waste management application for the proposed expansion of the ash disposal facility at Kriel coal Fired Power Station. Responsible for site visits, scoping and impact report write-up, managing specialists, public participation and stakeholder engagement.

**Environmental and social impact assessment (ESIA) for Makambako wind energy facility (WEF), Iringa Province, Tanzania, Windlab Limited, 09/2015 - 03/2018, Environmental Scientist / Assessment Practitioner**

The project entailed an ESIA for the Makambako WEF near Makambako in Southern Tanzania. Responsible for site visits, report write-up, managing specialists and public participation.

**Auditing of Hermanus Waster Treatment Works Water Use Licence, Western Cape Province, South Africa. Overberg Local Municipality. 01/2018 - 01/2018, Environmental Auditor**

Undertaking annual Water Use License compliance audit of the Hermanus Wastewater Treatment Works. Responsible for overseeing and review of audit.

**Environmental Due Diligence of Tsitsikamma Community Wind Farm, Eastern Cape Province, South Africa. Not-disclosed. 07/2017 - 07/2017, Environmental Auditor**

Undertaking environmental due diligence of the Tsitsikamma Community Wind Farm as part of facility due diligence assessment.



**Green Village catchment management: Guidelines and training, Eastern Cape Province, South Africa, Water Research Commission (WRC), 09/2015 - 03/2018, Environmental Scientist**

The project entailed the compilation of a set of catchment management guidelines, review of the school curriculum and provision of training for implementation in a case study catchment in rural Eastern Cape Province. Responsible for legislative review and general authorisation guidelines.

**EIA for Hotazel Solar Park, Northern Cape Province, South Africa, juwi Renewable Energies, 04/2016 - 07/2017, Environmental Scientist / Assessment Practitioner**

The project entails an EIA for the proposed 200 MW/AC photovoltaic (PV) facility including a utility scale battery storage facility, near the town of Hotazel in the Northern Cape Province of South Africa. Responsible for report write-up and integration of specialist studies into the EIA.

**Upgrade to divisional roads DR01609 and a portion of DR01625 in Rondevlei, Western Cape Province, South Africa, Provincial Government of the Western Cape (PGWC): Department of Transport and Public Works, 12/2015 - 12/2017, Environmental Scientist / Assessment Practitioner**

The project entailed a basic (environmental impact) assessment for the proposed upgrade to divisional roads DR1609 and a portion of DR1625 in Rondevlei. Responsible for site visits, report write-up and review, managing specialists, public participation and stakeholder engagement.

**Pre-Feasibility study for proposed renewable energy projects in Mtera and Katesh, Tanzania, DI Frontier Market Energy & Carbon Fund, 07/2016 - 12/2016, Environmental Scientist**

The project entailed a pre-feasibility study for proposed photovoltaic (PV) facilities near Mtera and WEF's near Katesh in Tanzania. Responsible for identifying potential sites based on environmental criteria as well as potential constraints at specific sites.

**Project information memoranda (PIM) for Mtwara Port and the Mtwara/Mikindani municipal master plan, Mtwara Region, Tanzania, Development Bank of Southern Africa (DBSA), 08/2014 - 12/2016, Environmental Scientist**

The project entailed the development of project information memoranda (PIM) for Mtwara Port, which entailed a review of the Mtwara Port feasibility study of 2012 and other related material that would assist in the preparation of a bankable PIM. The project also involved the development of the Mtwara/Mikindani detailed municipal land use master plan to collect baseline spatial data that can assist in understanding the growth projections for the city and proposing suitable physical and social infrastructure and land uses to accommodate the growth. Responsible for providing environmental input.

**Western Cape road materials supply strategy, Western Cape Province, South Africa, Provincial Government of the Western Cape (PGWC): Department of Transport and Public Works (DTPW), 06/2012 - 12/2017, Environmental Scientist / Assessment Practitioner**

Increasing pressures from tightened environmental legislation have resulted in lengthy waiting periods for identifying required material sources. The wait is also caused by investigation phases and getting approval from the Mineral Resources and Petroleum Development Act (DMR), the Department of Environmental Affairs and Development Planning (DEADP), the National Environmental Management Act (NEMA) and the Land Use Planning Ordinance (LUPO). The appointment was for prospecting suitable road making materials, sampling, testing and identifying technically suitable sources to be used for both identified maintenance and re-gravelling projects and as strategic pits as well as for getting all the required approvals. Responsible for the compilation of the site identification and assessment, environmental management plans / programmes, specialist and stakeholder engagement, undertaking and managing Environmental Control Officers (ECO) in the Eden District.

**Technical assessment of proposed catalytic projects, North West Province, South Africa, Housing Development Agency (HDA), 09/2015 - 11/2016, Environmental Scientist**

The project entailed technical support to HDA to facilitate projects planning, preparation and reporting on identified potential human settlements catalytic project programmes. Responsible for undertaking environmental sensitivity and suitability analysis as well as identifying implications and recommendations for each project area.



**EIA for an Oil and Gas drilling super base in Mtwara Port, Mtwara Region, Tanzania, Schlumberger Seaco Inc, 01/2015 - 06/2016, Environmental Scientist / Assessment Practitioner**

The client proposes to establish a drilling maintenance and supply super base within the Mtwara Export Processing Zone (EPZA) to serve all land and offshore oil and gas drilling operations in the region. The super base includes a liquid mud plant (LMP), laboratories and workshops. The appointment was to undertake the EIA and obtain the necessary the environmental authorisations (EAs).

**EIA for Namies WEF, Northern Cape Province, South Africa, juwi Renewable Energies (Pty) Ltd, 05/2013 - 05/2016, Environmental Scientist / Assessment Practitioner**

The appointment was for undertaking and managing the EIA process for the construction of a 140 MW WEF on farms near Aggeneys. Energy generated at the WEF would be evacuated from the site via 132 kV or 220 kV overhead transmission lines. Responsible for site visits, report write-up, managing specialists and public participation.

**Concept study for establishing a port in Oranjemund, Karas Region, Namibia, Namdeb Diamond Corporation, 02/2015 - 12/2015, Environmental Scientist**

The project involves undertaking a concept study to investigate the technical, economic and environmental feasibility of establishing a port in Oranjemund with a view to develop a means of using existing dredge ponds to benefit Namdeb, the region and other stakeholders. The port will serve the De Beers Marine Namibia (DBMN) and the Kudu Gas offshore operations. The appointment was to undertake a concept study of port layouts, port locations and logistics bases; concept design of port infrastructure and environmental and social constraints analysis, which included the biophysical, social and heritage aspects of the identified sites. Responsible for contributing to identification and assessment of environmental constraints and report write-up.

**Lifecycle environmental management programme (LEMP) for Kangnas WEF, Northern Cape Province, South Africa, Mainstream Renewable Energies South Africa (Pty) Ltd, 07/2015 - 09/2015, Environmental Scientist / Assessment Practitioner**

The project entailed a LEMP for the Kangnas Wind Farm near Springbok. Responsible for the write-up of the LEMP, including an erosion management plan; hazardous substance management plan; plant rescue, protection, rehabilitation and re-vegetation plan; stormwater management plan and a traffic management plan (TMP).

**EIA for Wolf WEF, Eastern Cape Province, South Africa, juwi Renewable Energies (Pty) Ltd, 08/2013 - 09/2015, Environmental Scientist / Assessment Practitioner**

In terms of the National Environmental Management Act, No. 107 of 1998 (NEMA), the construction of a WEF and associated infrastructure on farms near Wolwefontein triggers a suite of activities that require environmental authorisation. The appointment was to undertake and manage the EIA process and stormwater management plan for the 80 MW facility, with 132/220 kV overhead lines for transmission and distribution. Responsible for site visits, report write-ups, managing specialists and public participation.

**EIA for Outeniqua WEF, Western Cape Province, South Africa, juwi Renewable Energies (Pty) Ltd, 03/2013 - 03/2015, Environmental Scientist / Assessment Practitioner**

The project comprised a full scoping and EIA for the Outeniqua WEF near Uniondale. The facility comprises 13 to 15 turbines of 2 MW to 3 MW each, with a combined total capacity of 39 MW. Responsible for site visits, report write-ups and public participation.

**Environmental constraints analysis of potential wind energy sites in Tanzania, Tanzania, Windlab Limited, 02/2015 - 05/2015, Environmental Scientist**

The client wished to determine the feasibility of establishing a WEF in Tanzania. As part of evaluation, The appointment was to undertake a comparative environmental constraints analysis, including the biophysical, social and heritage aspects of the identified sites. Responsible for contributing to identification and assessment of environmental constraints.



**Relocation of Diageo's bottling plant, KwaZulu-Natal Province, South Africa, Diageo Great Britain Limited, 06/2014 - 12/2014, Environmental Scientist**

This project entailed an environmental screening of four potential development sites for Diageo, two in Kwazulu-Natal and two in Gauteng, for the relocation of Diageo's Isipingo bottling plant. Responsible for the legislative review of preferred alternative sites.

**EIA for three photovoltaic (PV) solar energy facilities in Namibia, Hardap, Erongo and Otjozondjupa Regions, Namibia, Namibia Power Corporation (NamPower), 01/2014 - 08/2014, Environmental Scientist**

The project entailed an EIA to investigate the generation of solar power at three proposed 10 MW photovoltaic (PV) facilities at separate locations in Namibia, namely Mariental, Omaruru and Okahandja. A multi-criteria decision making (MCDM) process used to select the three preferred sites. An environmental management plan (EMP) was also compiled to ensure that all potential socio-economic and biophysical impacts were mitigated as far as possible. Responsible for non-technical summaries of EIA and summary of specialist reports.

**Cost estimate of solid waste management for Beaufort West, Swellendam, Magareng Local Municipality, South Africa, Mubesko Africa, 07/2014, Environmental Scientist**

The project entailed the cost estimate of solid waste management for the Magareng Local Municipality. Responsible for report write-up.

**Auditing of Environmental authorisation (EA) and operational environmental management programme (OEMPr) for the Garden Route Casino, Western Cape Province, South Africa, Garden Route Casino, 11/2012 - 12/2017, Environmental Auditor**

The project involved an external environmental compliance audit report for the environmental authorisation (EA) and operational environmental management programme (OEMPr) for the Garden Route Casino in Mossel Bay. Responsible for undertaking the compliance audit.

**Geometric improvements on National Route 2, Section 7 (N2/7): Hoekwil to Kleinkrantz, Western Cape Province, South Africa, Vela VKE/South African National Roads Agency Limited (SANRAL), 11/2012 - 12/2012, Public Participation Facilitator**

The project entailed the facilitation of the public participation process (PPP) with regards to the proposed geometric improvements on National Route 2, Section 7 (N2/7) between Hoekwil (Km 39.4) and Kleinkrantz (Km 42.0). Responsible for the facilitation of the PPP.

**Cost estimate of solid waste management for Beaufort West and Swellendam Local Municipality, Western Cape Province, South Africa, Mubesko Africa CC, 09/2012, Environmental Scientist**

The project entailed the cost estimate of solid waste management for the Swellendam Local Municipality. Responsible for site visits and report write-up.

**Cost estimate of solid waste management for Hantam Local Municipality, Northern Cape Province, South Africa, Hantam Local Municipality/Mubesko Africa CC, 08/2012, Environmental Scientist**

The project entailed a cost estimate of solid waste management for Hantam Local Municipality. Responsible for the report review and submission.

**Bitou Local Municipality environmental management framework (EMF), Western Cape Province, South Africa, Bitou Local Municipality, 08/2012, Environmental Scientist**

The project entailed the compilation of an environmental management framework (EMF) for the Bitou Local Municipality. Responsible for data capturing and attending meetings.



**Upgrading of Laingville wastewater treatment works (WWTW), Western Cape Province, South Africa, Element Consulting Engineers/Saldanha Bay Local Municipality, 11/2011 - 07/2012, Environmental Assessment Practitioner**

The project entailed the upgrading of the existing Laingville wastewater treatment works (WWTW) to accommodate a hydraulic capacity of 1825 m<sup>3</sup>/d. The upgrade included the construction of an additional pipe at the inlet works; an additional anoxic reactor; the removal of the existing aerators and the installation of higher aeration efficient aerators; the reinstating of the secondary clarifier; the construction of an additional maturation pond; the abandonment of the existing chlorination building and construction of a new building and contact channels at the outlet of the proposed maturation pond and the construction of proposed sludge drying beds. Responsible for the compilation of key documents relating to the EIA, scoping and environmental impact report (EIR), background information documents (BIDs), EMPs, the public participation process (PPP), consultation with interested and affected parties (I&APs) and compilation of comment and response forms. Also responsible for the compilation of advertisements and site notices, mapping and background research.

**Port Nolloth, Sanddrift, Kuboes, Sandrift, Lekkering and Eksteensfontein solid waste disposal sites, Northern Cape Province, South Africa, BVI Consulting Engineers/Richtersveld Local Municipality, 10/2011 - 06/2012, Environmental Assessment Practitioner**

The project comprised the construction of a 3.3 ha general waste disposal facility and a 0.05 km access road. Services included, scoping and an environmental impact report (EIR). Responsible for the compilation of key documents relating to the EIA, scoping and EIR, background information documents (BIDs), EMPs, public participation process (PPP), consultation with interested and affected parties (I&APs) and compilation of comment and response forms. Also responsible for the compilation of advertisements and site notices, mapping and background research.

**Eksteensfontein, Port Nolloth, Lekkering, sewage facility, Northern Cape Province, South Africa, BVI Consulting Engineers/Richtersveld Local Municipality, 10/2011 - 06/2012, Environmental Assessment Practitioner**

The project comprised the construction of sewer oxidation and evaporation ponds as well as a 1.2 km sewer pipeline, a sewage pump station and 0.3 km access road. Services included scoping and an environmental impact report (EIR). Responsible for the compilation of key documents relating to the EIA, scoping and EIR, including background information documents (BIDs), EMPs, public participation process (PPP), consultation with interested and affected parties (I&APs) and compilation of comment and response forms. Also responsible for the compilation of advertisements and site notices, mapping and background research.

**Road upgrading and mining permits, Northern Cape Province, South Africa, BVI Consulting Engineers/Richtersveld Local Municipality, 07/2011 - 07/2012, Environmental Assessment Practitioner**

The project entailed the upgrading of 11 km of Road DR2963 from National Route 7 (N7) towards Klipfontein; the upgrading of 8 km of Road OG120 towards the MR739 (Garies - Hondeklipbaai Road); the upgrading 54 km of Road MR739 from the connection towards Hondeklipbaai and the upgrading of approximately 1.3 km of the access road in Hondeklipbaai to link up with Wag Way Street. Material sources included five new identified quarry sites in close proximity to the road. Responsible for the compilation of key documents relating to the basic assessment report (BAR), including BIDs, EMPs, PPP including holding of workshops, participation in meetings with I&APs and the compilation of comment and response forms. Also responsible for the compilation of advertisements and site notices, mapping and background research.

**Lepelsfontein water supply pipeline, Northern Cape Province, South Africa, BVI Consulting Engineers/Kamiesberg Local Municipality, 11/2010 - 06/2011, Environmental Assessment Practitioner**

This project entailed the construction of a 2.5 km underground water supply pipeline from two existing boreholes to the existing raw water reservoirs. Services also included the building of air and scour valve chambers along the pipeline route. Responsible for the compilation of key documents relating to the BAR, including BIDs, EMP, PPP including holding of workshops, participation in meetings with interested and affected parties (I&APs) and compilation of comment and response forms. Also responsible for the compilation of advertisements and site notices, mapping and background research.

**Reverse osmosis (RO) and a basic assessment of a desalination plant, Northern Cape Province, South Africa, BVI Consulting Engineers/Richtersveld Local Municipality, 09/2010 - 02/2012, Environmental Assessment Practitioner**

The project entailed the installation of a 1.5 Ml/d reverse osmosis (RO) seawater desalination plant to supplement the potable water supply of Port Nolloth. The desalination plant would provide 1.5 Ml of fresh water per day when running at full capacity. This would require abstracting about 3.8 Ml (182 m<sup>3</sup>/h) of water from the sea through a series of beach wells, of which about 2.3 Ml would be returned to the sea as concentrated seawater. Responsible for the

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compilation of key documents relating to the BAR, including BIDs, EMP, PPP including holding of workshops, participation in meetings with I&APs and the compilation of comment and response forms. Also responsible for the compilation of advertisements and site notices, mapping and background research.