

# ASHLEA STRONG, MEM, EAP

PRINCIPAL CONSULTANT (ENVIRONMENTAL SERVICES), ENVIRONMENT & ENERGY



## YEARS WITH THE FIRM

2

## YEARS TOTAL

14

## PROFESSIONAL QUALIFICATIONS

CEAPSA

## AREAS OF PRACTICE

SEIR

Auditing

Energy

Environmental Control

Infrastructure

Mining

Waste Management

Training

Health & Safety

## LANGUAGES

Afrikaans

## CAREER SUMMARY

Ashlea is a Principal Consultant with 13 years' experience in the environmental field. She currently provides technical and strategic expertise on a diverse range of projects in the environmental management field, including environmental scoping and impact assessment studies, environmental management plans, waste and water management, as well as the provision of environmental management solutions and mitigation measures.

Ashlea has been involved in the management of a number of large EIAs specifically within the energy sector such as the Medupi Power Station, and Pebble-Bed Modular Reactor (PBMR) and numerous Transmission Powerlines. She also has environmental auditing and training experience and expertise.

Ashlea holds a Masters in Environmental Management; a BTech (Nature Conservation), and a National Diploma (Nature Conservation); She is also a Certified Environmental Assessment Practitioner of South Africa (CEAPSA).

## EDUCATION

Masters in Environmental Management, University of the Free State, South Africa	2006
B Tech, Nature Conservation, Technikon SA, South Africa	2001
National Diploma in Nature Conservation, Technikon SA, South Africa	1999

## ADDITIONAL TRAINING

Conduct outcomes based assessment (NQF Level 5), South African Qualifications Authority (SAQA)	2009
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## PROFESSIONAL MEMBERSHIPS

Certified Environmental Assessment Practitioner of South Africa, with the Interim Certification Board	CEAPSA
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## PROFESSIONAL EXPERIENCE

### Energy Sector

- à Proposed Tabor - Nzhelele 400kV Transmission Lines and associated infrastructure, Limpopo Province, South Africa (2012): Project Manager. This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for a 100km 400kV powerline between Louis Trichardt and Musina in the Limpopo Province. Client: Eskom Transmission.
- à Pebble Bed Modular Reactor Demonstration Plant and Associated Infrastructure, Western Cape, South Africa (2008): Project Manager. This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Pebble Bed Modular Reactor Demonstration Plant and Associated Infrastructure in the Western Cape Province. Client: Eskom Generation.

# ASHLEA STRONG, MEM, EAP

- à Proposed Bantamsklip – Kappa 765 kV Transmission Lines and associated infrastructure, Western and Northern Cape, South Africa (2008): Project Manager. This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for four 260km 765kV powerlines between the Bantamsklip Nuclear Power Station Site and the proposed new Kappa Substation in the Karoo, Western Cape Province. Client: Eskom Transmissions.
- à Proposed Bantamsklip – Bacchus, Bacchus - Kappa and Bacchus – Muldersvlei 400 kV Transmission Lines and associated infrastructure, Western and Northern Cape, South Africa (2008): Project Manager. This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for a number of 400kV powerlines between the Bantamsklip Nuclear Power Station Site and a number of substations, including Bacchus, Kappa and Muldersvlei, in the Western Cape Province. Client: Eskom Transmission.
- à Proposed Combined Cycle Gas Turbine Plant and Associated Infrastructure near Majuba, Mpumalanga, South Africa (2007): Project Manager. This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Combined Cycle Gas Turbine Plant and Associated Infrastructure near Majuba in the Mpumalanga Province. Client: Eskom Holdings SOC Limited.
- à Proposed Capacity Increase of the Atlantis OCGT Plant and Associated Infrastructure, Western Cape, South Africa (2006): Project Manager. This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Capacity Increase of the Atlantis OCGT Plant and Associated Infrastructure in the Western Cape Province. Client: Eskom Generation.
- à Proposed Concentrated Solar Thermal Plant in the Northern Cape, South Africa (2006): Project Manager. This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Concentrated Solar Thermal Plant near Upington in the Northern Cape Province. Client: Eskom Holdings SOC Limited.
- à Proposed Underground Coal Gasification plant, Eskom, Mpumalanga, South Africa (2006): Project Manager. This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Underground Coal Gasification plant near the Majuba Power Station in the Mpumalanga Province. Client: Eskom Holdings SOC Limited.
- à Proposed new Coal-fired Power Station in the Lephalale Area for Eskom, Limpopo, South Africa (2005): Project Manager. This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed new Coal-fired Power Station in the Lephalale Area in the Limpopo Province. Client: Eskom Generation.

## Infrastructure Sector

- à Proposed Kraft Paper Mill in Frankfort, Frankfort, Free State, South Africa (2013): Project Manager. This project involved the undertaking of an Environmental Impact Assessment, including the compilation of an Environmental Management Programme, for the proposed establishment of a KRAFT paper mill in Frankfort in the Free State Province. Client: Industrial Development Corporation of SA (Pty) Ltd.

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## Mining Sector

- à Establishment of the Proposed Rietvlei Opencast Coal Mine, Mpumalanga, South Africa (2013): Project Manager. This project involves the undertaking of an integrated environmental authorisation process, including an Environmental Impact Assessment, Environmental Management Programme Report, Waste Management License Application and Water Use License Application, for the establishment of an opencast coal mine north of Middelburg. Client: Rietvlei Mining Company.
- à Inyanda Mine Pegasus South Expansion, Mpumalanga, South Africa (2011): Project Manager. This project included the compilation of an Environmental Impact Assessment, Environmental Management Plan, the Amendment of the existing Environmental Management Programme Report and the amendment of the existing Water Use License for the Inyanda Mine Pegasus South Expansion project, north of Middelburg in the Mpumalanga Province. Client: Exxaro Coal (Pty) Ltd.

## Waste Management Projects

- à Proposed continuous Ashing at Majuba Power Station, Mpumalanga, South Africa (2012): Project Manager. This project entailed the compilation Environmental Impact Assessment and Waste Management License Application for the proposed continuous ashing project at the Majuba Power Station in Mpumalanga. Client: Eskom Holdings SOC Limited.
- à Proposed continuous Ashing at Tutuka Power Station, Mpumalanga, South Africa (2012): Project Manager. This project entailed the compilation Environmental Impact Assessment and Waste Management License Application for the proposed continuous ashing project at the Tutuka Power Station in Mpumalanga. Client: Eskom Holdings SOC Limited.
- à Proposed extension of Ash Dams at Hendrina Power Station, Mpumalanga, South Africa (2011): Project Manager. This project entailed the compilation Environmental Impact Assessment and Waste Management License Application for the proposed extension of the ash dams at the Hendrina Power Station in Mpumalanga. Client: Hendrina Power Station.
- à Phase 1 of the Environmental Impact Assessment for the Proposed Regional General and Hazardous Waste Processing Facility, Eastern Cape (2005). Project Manager. This project entailed the compilation Environmental Impact Assessment for the Proposed Regional General and Hazardous Waste Processing Facility in the Eastern Cape. Client: Coega Development Corporation.

## Specialist Projects

- à Strategic Environmental Assessment for the Development. Master Plan Greater Port Harcourt, Rivers State, Nigeria, Africa (2008): Senior Environmental Consultant. This project entailed the compilation of a Strategic Environmental Assessment for the City of Port Harcourt as part of the development of the Master Plan for the Greater Port Harcourt Area. Client: Port Harcourt Government.



The Interim Certification Board  
for  
Environmental Assessment Practitioners  
of  
South Africa

Ashlea-Robyn Strong

was certified as an

**ENVIRONMENTAL ASSESSMENT  
PRACTITIONER**

I HEREBY CERTIFY THAT THIS IS A TRUE COPY  
OF THE ORIGINAL DOCUMENT AND THERE IS NO  
INDICATION THAT ANY ALTERATIONS HAVE BEEN MADE  
THERE TO BY AN UNAUTHORIZED PERSON  
Sign: *[Signature]* Date: 22/8/13  
WAYNE RAMON OLIVER Lt. Col. 85589864PE  
COMMISSIONER OF OATHS  
999 BRYANSTON DRIVE  
BRYANSTON, JOHANNESBURG 2021

on this 8<sup>th</sup> day of April 2010

*[Signature]*

Chairperson

*[Signature]*

Secretary

UNIVERSITEIT  
VAN DIE  
VRYSTAAT



UNIVERSITY  
OF THE  
FREE STATE

HIERMEE WORD VERKLAAR DAT DIE THIS IS TO CERTIFY THAT THE

**Magister in Omgewingsbestuur**  
**Magister in Environmental Management**

TOEGEKEN IS AAN  
HAS BEEN CONFERRED UPON

**ASHLEA-ROBYN STRONG**

Met effek vanaf with effect from  
**1 Februarie / February 2006**

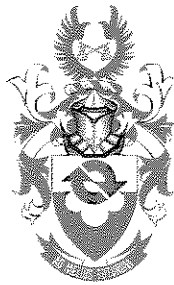
NADAT AAN DIE STATUTE EN REGULASIES VAN DIE UNIVERSITEIT VOLDOEN IS. AS BEWYS DAARVAN PLAAS ONS ONS ONDERSKEIE HANDTEKENINGE EN DIE SEËL VAN DIE UNIVERSITEIT HIERONDER. IN ACCORDANCE WITH THE STATUTES AND REGULATIONS OF THE UNIVERSITY. AS WITNESS OUR RESPECTIVE SIGNATURES AND THE SEAL OF THE UNIVERSITY BELOW.

  
.....  
VISEKANSELIER/VICE-CHANCELLOR

  
.....  
DEKAAN/DEAN

  
.....  
REGISTRATEUR/REGISTRAR

BLOEMFONTEIN  
2006-04-25  
2003049109



TECHNIKON SA

THE DEGREE  
**BACCALAUREUS  
TECHNOLOGIAE**

**NATURE CONSERVATION**

Is awarded to

**ASHLEA-ROBYN STRONG**

Date of Birth

**1976/09/03**

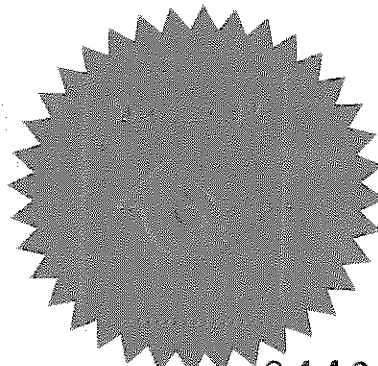
Student Number

**95104199**

with effect from

**2001/03/01**

Registrar



No. B **3443**

Principal / Vice Chancellor





TECHNIKON SA

# NASIONALE NATIONAL DIPLOMA

NATUURBEWARING

NATURE CONSERVATION

Toegeken aan

Awarded to

**ASHLEA-ROBYN MULLETT**

ID: 7609030131081

met ingang van

with effect from

1999/03/01

Die volgende is voltooi:

The following were completed:

(\*dui onderskeiding aan)

(\*indicates distinction)

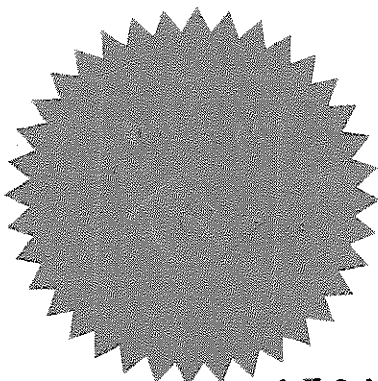
PLANTESTUDIES I \*  
PLANTESTUDIES II \*  
PLANTESTUDIES III  
DIERESTUDIES I \*  
DIERESTUDIES II  
DIERESTUDIES III  
BEWARINGSEKOLOGIE I \*  
BEWARINGSEKOLOGIE II \*  
BEWARINGSEKOLOGIE III \*  
HULPBRONBESTUUR I  
HULPBRONBESTUUR II  
HULPBRONBESTUUR III  
BEWARINGSKOMMUNIKASIE I  
BEWARINGSKOMMUNIKASIE II  
BEWARINGSONTWIKKELING I  
BEWARINGSADMINISTRASIE I  
REKENAARGEBRUIK I \*  
GRONDKUNDE I

PLANT STUDIES I \*  
PLANT STUDIES II \*  
PLANT STUDIES III  
ANIMAL STUDIES I \*  
ANIMAL STUDIES II  
ANIMAL STUDIES III  
CONSERVATION ECOLOGY I \*  
CONSERVATION ECOLOGY II \*  
CONSERVATION ECOLOGY III \*  
RESOURCE MANAGEMENT I  
RESOURCE MANAGEMENT II  
RESOURCE MANAGEMENT III  
CONSERVATION COMMUNICATION I  
CONSERVATION COMMUNICATION II  
CONSERVATION DEVELOPMENT I  
CONSERVATION ADMINISTRATION I  
COMPUTER USAGE I \*  
SOIL SCIENCE I

((V) Dui vakke vrygestel aan)

((E) Indicates subjects exempted)

Registrateur / Registrar



Nr. / No. D 15019

Rektor / Principal  
Visekanselier / Vice Chancellor

# NIGEL SEED, B.Soc.Sc. EAP

DIRECTOR (ENVIRONMENTAL SCIENCE), ENVIRONMENT & ENERGY



## CAREER SUMMARY

Nigel is a Director with 14 years' environmental management and consulting experience in Southern Africa. Nigel is the Business Unit Manager of the Environmental Services Business Unit with the responsibility for professional teams in Durban, Johannesburg and Cape Town.

Nigel's technical expertise centres on pollution and waste issues and associated environmental projects in the industrial sectors. He has delivered major projects in the fields of planning and permitting, waste management, cleaner production, strategy and risk management, legal compliance, and environmental management systems.

Nigel has diverse sectorial experience including mining and metallurgy (aluminium, gold, platinum, ferro-alloys, iron/steel and uranium); large-scale thermal power generation; chemical manufacturing (pulp and paper, polymers, petro-chemical and agri-chemical); manufacturing (FMCG, food & beverage); infrastructure (ports, road, rail electricity transmission); waste management and agriculture.

## YEARS WITH THE FIRM

13

## YEARS TOTAL

15

## PROFESSIONAL QUALIFICATIONS

EAP

## AREAS OF PRACTICE

Environmental Impact Assessment Process

Environmental Impact Assessments

Legal Compliance Reviews

Environmental Management Plans & Systems, and

Environmental Monitoring

Waste Management

## EDUCATION

Bachelor of Science (Honours), Social Science, Environmental Management & Geography, University of Natal, Durban, South Africa 2000

## ADDITIONAL TRAINING

Diploma in AutoCAD 2000

## PROFESSIONAL MEMBERSHIPS

Institute for Waste Management South Africa IWMSA

International Association for Impact Assessment IAIA

Certified Environmental Assessment Practitioner EAP

## PROFESSIONAL EXPERIENCE

### Environmental Impact Assessment Process

#### Crude Oil Refining

à Cleaner Fuels Phase 2, South Africa, (2013): Project Director. ESIA/ESMP in terms Shell HSSE & SP impact assessment and social performance standards for modifications to the SAPREF refinery in order to achieve pending specifications for sulphur for both diesel and gasoline, and benzene and aromatics in gasoline. South Africa. Client: SAPREF.

à Tetra Ethyl Lead Facilities Decommissioning Projects, South Africa (2012 - 2015): Project Director. Environmental risk assessment, ESMP and oversight of all environmental monitoring associated with the decommissioning of TEL handling and waste storage facilities at the SAPREF Refinery and Island View. South Africa. Client: SAPREF.



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- à East London Joint Depot Facility (JDF) Petroleum Storage Depot Transactional Environmental Due Diligence, South Africa (2015): Technical Lead. Environmental due diligence assessment of a large-scale petroleum products storage depot with key emphasis on buyer's potential statutory, waste management, and subsurface contamination remediation liability. South Africa. Client BP SA (Pty) Ltd.
- à ENREF Environmental Risk and Integrity Assessment, South Africa (2014). Technical Lead. Determination of potential for Section 30 emergency incidents, appraisal of preventative and migratory measures, development of action plan, authority liaison and facilitation. Client: Engen Limited.
- à Environmental Legal Appraisal of Refinery Projects, South Africa (2012-2014). Technical Lead. Environmental and legal appraisal of projects viz. vertical deep well anode bed pipeline protection (2015), LL Extraction Column for BTEX reduction in CD2/3 de-salter effluent (2014), Sour Water Stripper and SRU-3 Coalescer replacement Projects (2012). KZN, South Africa. Client: SAPREF.
- à Waste Act Legal Review of SASOL Synfuels Refinery, South Africa (2013-2014). Legal Specialist. Process block assessment of pre-identified unit processes and process streams at the SASOL Synfuels Refinery, development and application of criteria for the identification of legally defined wastes and activities requiring waste licenses. Client: SASTECH.
- à Industry Waste Management Plan for the South African Used Lubrication Oils Sector, South Africa (2015). Project Director. Preparation of an industry waste management plan as part of the ROSE Foundation extender producer responsibility (EPR) programme for the South African Lubrication Oil manufacturing sector. Client: ROSE Foundation.

### Mining and Metallurgy

- à Underground Chrome Mine, South Africa (2011): Project Director. ESIA for the establishment of an underground chrome mine targeting the Middle Group and Lower Group Reefs covering 28 500 hectares on the Farm Turfontein 462 JQ. Client: Samancor Chrome Ltd.
- à South Uranium Plant SX Circuit Replacement, South Africa (2011): Project Manager. EIA process for proposed solvent extraction plant replacement at Vaal River Operations. The SX process employs atmospheric acid leaching, counter current decantation and ion exchange systems to concentrate uranium leach liquor, which is then further upgraded and purified and reacted to produce ammonium di-uranate. Client: AngloGold Ashanti (Pty) Ltd.
- à Smelter SO<sub>2</sub> Abatement Projects, Polokwane / Rustenburg, Limpopo / North West Province, South Africa (2012): Technical Support. Technical support to the EIA process for proposed SO<sub>2</sub> abatement equipment initiatives at the Polokwane and Mortimer Smelters. Client: Anglo American Platinum Ltd.
- à Desulphurisation Unit, Newcastle, KwaZulu-Natal, South Africa (2006): Project Manager. EIA process for proposed upgrade of the desulphurisation unit and dust abatement system associated with the steel plant furnaces. Client: Arcelor Mittal South Africa Ltd.
- à 60 MVA Ferrosilicon Smelter, South Africa (2003): Project Manager. EIA Process for the proposed establishment of a 60 MVA ferrosilicon smelter. Client: Silicon Technology (Pty) Ltd.

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- à Richards Bay Bulk Materials Handling Facility ESIA, South Africa (2003): Project Manager. Development of a Bulk Materials Handling Facility associated with the Port dry bulk terminal Import/export facilities. Client: Richards Bay Coal Distributors.

### Effluent and Waste Management

- à Netcare National Waste Management Strategy, South Africa (2015): Project Lead (Waste). Baseline waste management assessment of 70 of Netcare's healthcare facilities including clinics and hospitals. Development of a national integrated waste management system and strategy. Client: Netcare Limited.
- à Healthcare Risk Waste Treatment Facilities, Pietermaritzburg, KwaZulu-Natal, South Africa (2006-2009): Project Manager. EIA Process and Waste Management License for proposed static and mobile microwave disinfection units for the treatment of healthcare risk waste. Client: Ecocycle (Pty) Ltd.
- à Electron Road Regional Waste Transfer Station, South Africa (2005-2006): Project Manager. EIA process and waste management licensing for a 2400 ton per day regional waste transfer station. Client: Durban Solid Waste.
- à KwaDukuza waste disposal site, South Africa (2010): Project Manager. EIA process peer review associated with the proposed high hazard (H:H) permitting of the Kwadukusa waste disposal site. Client: Metamorphosis Environmental Consultants.
- à Illovo South Africa Waste Legislation Compliance Review and Strategy, South Africa (2010): Project Manager. Provision of technical waste management support to a legal (including Waste Act) assessment with Garlicke & Bousfield. The study included six Illovo Sugar facilities within KwaZulu-Natal including distilleries and mills. Client: Illovo Sugar South Africa Limited.
- à Waste Disposal Site Prefeasibility, South Africa (2010): Project Manager. Waste disposal site prefeasibility for ferrosilicon smelting operations. The determination of waste type, landfill class and associated CAPEX and OPEX was based on relevant DEA standards Client: Silicon Technology (Pty) Ltd.
- à Newcastle Works Effluent Buffering, South Africa (2009): Project Manager. EIA process associated with the implementation of effluent buffering capacity in order to address ammonia toxicity to the biological effluent treatment process. The project proposal entailed the use of an existing leachate dam associated with an existing high hazard (H:H) waste disposal site situated on the complex. Client: Arcelor Mittal South Africa Ltd.
- à AngloGold Waste Management Strategy, Vaal River, Gauteng, South Africa (2008): Project Manager. Development of a comprehensive waste management strategy for 27 business (mines, metallurgical plants, commercial services) units in the Vaal River and West Wits area (2003). In 2008 the strategy was updated to include the development of a comprehensive action plan for the management of hazardous waste. Client: AngloGold Ashanti (Pty) Ltd.
- à Lebowa Mining Complex Waste Management Strategy, South Africa (2008): Project Manager. Waste management baseline assessments, waste management strategies, and to develop detailed waste management procedures for the Lebowa Platinum Mine complex and the Polokwane Smelter. Client: Anglo American Platinum Ltd.
- à Umbogintwini Industrial Complex Effluent Balance, South Africa (2007-2008): Project Manager. Effluent balance and feasibility studies for additional marine

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effluent disposal capacity & associated water and energy recovery. Client: Heartland Leasing (Pty) Ltd.

- à Resource Recovery Facility – Uitenhage, Eastern Cape, South Africa (2007-2008): Waste Management License / EIA process for the development of a resource recovery facility for the handling and treatment of hydrocarbon and organic effluents, various general and hazardous solid wastes. Client: Veolia Environmental Services (Pty) Ltd.
- à Effluent Treatment Facilities, South Africa (2007/8): Project Manager. ESIA/ESMP for effluent treatment facilities intended to address increasingly stringent sulphide limitations at the Southern Wastewater Treatment Works. Client: SAPREF.
- à Study on Priority Hazardous Waste Streams in the Western Cape, South Africa (2007): Project Manager. Development of the Best Practicable Environmental Options for priority hazardous waste streams in the Western Cape. Client: Department of Environmental Affairs and Development Planning.
- à Hazardous Waste Transfer Facility, Richards Bay, KwaZulu-Natal, South Africa (2006): Project Manager. EIA Process for the proposed establishment of a hazardous waste transfer facility at the Richards Bay Dry Bulk Terminal. Client: Transnet Port Terminals.
- à Logmed® Medical Waste Facilities, South Africa (2002): Project Manager. Assessment of four alternative Medical Waste Treatment Facility sites within the eThekweni Municipality as part of an EIA process. Client: WasteMan (Pty) Ltd.

### Power

- à ESIA for the 120MW combined cycle gas turbine power project and associated Light Crude Oil and Natural Gas pipelines and storage facilities in the Tema Free Zone Enclave in Ghana (2016): Project Manager. Client: Atlantic Electric Company / LMI Holdings.
- à Photovoltaic, Concentrated Solar, and Wind Power Generation Facilities in Northern and Western Cape Provinces, South Africa (2015): project Director. ESIA for the Letsoai concentrated solar (300MW), Enamandla Solar PV (375MW), Maralla Wind (280MW) and Esizayo Wind (140MW) including associated 275kV / 400kV grid connections. Client: Biotherm Energy.
- à Gledhow Mill 11-18MW Biomass Energy Project, South Africa (2012): Project Manager. EIA processes for a renewable energy power project within the Gledhow Sugar Mill Complex. The project will comprise the installation of a biomass boiler and electricity generation plant with a capacity ranging from 11MW to 18MW which will be exported to the national grid. Client: Illovo Sugar Ltd.
- à Solar Photovoltaic (PV) Generation Facility, South Africa (2011): Project Director. Basic Assessment (BA) process for the proposed construction of a Solar Photovoltaic (PV) Generation Facility. Client: eThekweni Municipality Energy Office.
- à National Landfill Gas to Electricity Projects, South Africa (2009-2010): Project Manager. EIA process and waste management licensing of 17 landfill Gas to Electricity Clean Development Mechanism Projects. Client: CEF (Pty) Ltd.
- à Durban Solid Waste Landfill Gas to Electricity Projects, South Africa (2003-2004): Project Manager. EIA process and waste management licensing of

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landfill Gas to Electricity Clean Development Mechanism Projects at Bisasar Road, Mariannhill, and La Mercy landfill sites. Client: Durban Solid Waste.

- à Mozambique Gas Engine Power Project, Mozambique, Africa (2011): Technical Support. EIA process for the proposed Mozambique Gas Engine Power Plant (MGEPP) 140 – 170 Megawatt (MW) electricity generation facility in Ressano Garcia, Mozambique. Client: Sasol Technology (Pty) Ltd.
- à Sasolburg 180-200MW Combined Cycle Gas Engine Power Project, South Africa (2011): BAT Review and Waste Management Specialist. Open cycle power plant with an output capacity of approximately 180MW; future conversion to a combined cycle (heat recovery) which will generate an additional 20MW. Client: SASOL New Energy Holdings.
- à Sappi Saiccor 20MW Multi-Fuel Boiler, South Africa (2011): Project Director. EIA processes for the a) establishment of a high pressure 20MW coal and biomass boiler and associated infrastructure at the Sappi Saiccor Mill and upgrade of chemical recovery boiler in order to derive energy and chemical recovery benefits. Client: Sappi Southern Africa Limited.
- à Sappi Tugela 40MW CCGT Project, South Africa (2011): Project Director. EIA processes for a 40MW combined cycle gas-powered combustion turbine. Client: Sappi Southern Africa Limited.
- à Power Line Construction and Upgrading projects, South Africa (2001-2004): Project Manager. Various 132KV & 275KV electrical transmission line construction and upgrading projects in the eThekweni Municipality. Client: eThekweni Electricity Department.

### Food and Agriculture

- à Ubombo Mill Furfural project, Swaziland (2015): Project Director. ESIA process for the establishment of a greenfield furfural manufacturing plant associated with the Ubombo Sugar Mill. Project included the furfural manufacturing facility and associated utilities viz. boiler utilities, effluent treatment facilities, materials handling, and waste management infrastructure. Client: Illovo Southern Africa.
- à 200t/day Tea Factory, Kenya, Africa (2012): Project Manager. ESIA for a proposed 200t/day (made tea) tea factory in Kericho, Kenya. Partnership with Howard Humphries (Ltd.) in order to facilitate local regulatory processes. Client: Unilever Limited.
- à Yeast Plant Environmental Prefeasibility, Southern Africa (2011): Project Manager. Site selection and environmental feasibility for the establishment of a yeast manufacturing facility within the Southern African region. Client: AB Mauri Technology & Development Ltd.
- à Waste Management Licensing, Stanger, KwaZulu-Natal, South Africa (2010): Project Manager. Waste Management License application and Scoping and EIA process for waste management activities at the Stanger Mill. Client: Sappi Stanger (Pty) Ltd.

### Chemicals Manufacturing

- à Anhydrous Hydrofluoric Acid Plant, South Africa (2012): Project Director. EIA Process associated with product diversification projects to optimize the internal use of intermediate products, and minimize site pollutants; entailing production of anhydrous hydrogen fluoride and aluminium trifluoride. Client: Foskor (Pty) Ltd.



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- à MSMA Production, South Africa (2009): Project Manager. Technical, environmental and legal assessment of proposed mono sodium methyl arsenate (MSMA) at the CleanTech (Berlin) industrial facility. Client: Mzansi Chemicals (Pty) Ltd.
- à PET Plant Debottlenecking - South Africa (2007-2008): Project Manager. Environmental duty of care assessment and integrated permitting (Scheduled Trade) procedure for PET production debottlenecking. Client: HOSAF (Pty.) Ltd.
- à Biodiesel Manufacturing, Berlin, Eastern Cape, South Africa (2007): Project Manager. EIA Process for proposed conversion of industrial facilities for the production of Biodiesel at the CleanTech (Berlin) industrial facility. Client: CleanTech Africa.
- à Industry Waste Management Plan, Western Cape, South Africa (2007): Project Manager. Provision of technical support to the development of an Industrial Waste Management Plan for the Consumer Formulated Chemicals Sector. Client: Western Cape Department of Environmental Affairs.
- à Ferromanganese Storage, Durban, KwaZulu-Natal, South Africa (2006): Project Manager. EIA Process for the proposed relocation of ferromanganese handling facilities within the Port of Durban. Client: Transnet National Ports Authority.
- à Acrylic Emulsion Plant Debottlenecking, South Africa (2006): Project Manager. Proposed de-bottlenecking project involving several initiatives aimed at improving process efficiency related to water based acrylic and co-acrylic emulsions (Styrene Acrylic Emulsions) production. Client: Rohm and Haas (Pty) Ltd.
- à Solid State Polymerisation (SSP) plant upgrade, Durban, KwaZulu-Natal, South Africa (2004): Project Manager. EMP and post construction audit for the construction of a Solid State Polymerisation (SSP) plant upgrade. Client: HOSAF (Pty.) Ltd.
- à Di Methyl Phthalate Plant Adaptation, South Africa (2003): Project Manager. Environmental appraisal of proposed Di Methyl Phthalate Plant adaptation project. Client: Orchem (Pty) Ltd.
- à Lignosulphonate Plant Construction Project. South Africa (2003): Environmental Control Officer. EMP, environmental monitoring and training for a greenfield lignosulphonate plant expansion project. Client: Lignotech (Pty) Ltd.

### Municipal Infrastructure

- à Outer West Roads Upgrades, South Africa (2005): Project Manager. EIA Process for strategic upgrading of key transportation routes in the eThekweni Municipality Outer West area. Client: eThekweni Roads Department.
- à Esidweni Low Cost Housing, South Africa (2003): Project Manager. Environmental prefeasibility and EIA Process for proposed development of the Esidweni low cost housing development at Umlazi. Client: eThekweni Housing Department.
- à Le Domaine Sewage Scheme, South Africa (2003): Project Manager. EIA for sewage treatment options for the Le Domaine retirement estate, Hillcrest, KwaZulu-Natal. Client: Le Domaine (Pty) Ltd.

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- à Mpumalanga Eastern Trunk Sewer, South Africa (2002): Environmental Control Officer. EMP, environmental monitoring, training, and rehabilitation project management for the construction of the 4km Mpumalanga eastern trunk sewer. Client: eThekweni Wastewater Department / Stewart Scott Engineers.
- à Sewage Treatment Facilities, Durban, KwaZulu-Natal, South Africa (2001): Project Manager. EIA Process for sewage treatment facilities associated with the redevelopment of the Rob Roy Hotel Site. Client: Alliance Property Group.

### Roads, Rail and Ports

- à Pemba Oil and Gas Port and Logistics Centre, South Africa (2014): Project Director. Environmental Screening and Site Selection, ESIA/ESMP Technical and Environmental Appraisal of an onshore 12000 hectare greenfield oil and gas logistics support base to the Rovuma offshore concession areas. Client: Sonils/ENH.
- à Transnet Rail Engineering Waste Management Strategies, South Africa (2011): Project Director. Development of an Industry Waste Management Plan for Durban and Koedoespoort Regions. Client: Transnet Rail Engineering.
- à Richards Bay Port Dry Bulk Terminal Waste Management Strategy, South Africa (2006): Project Manager. Development of waste management baseline assessment and development of a bulk material waste minimisation strategy for the Richards Bay Dry Bulk Terminal. Client: Transnet Port Terminals.
- à Richards Bay Port Dry Bulk Terminal Waste Transfer Station, South Africa (2006): Project Manager. EIA Process for the proposed establishment of a hazardous waste transfer facility at the Richards Bay Dry Bulk Terminal. Client: Transnet Port Terminals.
- à Durban Port Upgrades of Island View Berths 5 and 6. South Africa (2005): Environmental Control Officer. EMP and environmental auditing for the reconstruction of Island View Berths 5 and 6, Port of Durban. Client: Transnet Port Terminals.
- à Richards Bay Port Waste Management Strategy, South Africa (2004): Project Manager. Development of a waste management baseline assessment, waste management strategy, and strategy implementation guidelines for the Port of Richards Bay. Client: Transnet Port Terminals.
- à Durban Port Ore and Ferrochrome Facility EMS, South Africa (2007): Project Manager. Environmental management system for the Durban container, bulk ore and ferrochrome handling facilities. Client: Bridge Ports (Pty) Ltd.

### General

- à SAAB Gripen Legal Review, Durban, KwaZulu-Natal, South Africa (2006): Project Manager. Activities associated with the introduction of the Gripen Aircraft into South Africa. Client: SAAB (c/o SAAB Sweden).
- à South African Police Services EMS. St. Lucia Wetland Park, KwaZulu-Natal, South Africa (2007): Project Manager. Environmental management system for SAPS training facilities. Client: South African Police Services.





The Interim Certification Board  
for  
Environmental Assessment Practitioners  
of  
South Africa

Nigel Robert Seed

was certified as an

**ENVIRONMENTAL ASSESSMENT  
PRACTITIONER**

on this 1st day of March 2012

  
.....  
Chairperson

  
.....  
Secretary



# University of Natal

We, the Vice-Chancellor, the Registrar,  
and the Dean of the Faculty,  
hereby certify  
that

**Nigel Robert Seed**

has this day been admitted to  
the degree of

**Bachelor of Social Science**



Vice-Chancellor

Registrar

Dean

5 April 2000