



SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT

Scoping and Environmental Impact Assessment
for the proposed Manganese Export Facility and
Associated Infrastructure in the Coega Industrial
Development Zone, Port of Ngqura and Tankatara area

DRAFT EIA REPORT

APPENDICES

Appendix A	EIA Team and EAP/Specialists Declarations
Appendix B	AEL and Waste Applications
Appendix C	Site Maps
Appendix D	Database of Interested and Affected Parties
Appendix E	Advertisements
Appendix F	Correspondence to Interested and Affected Parties
Appendix G	E-Notice and Site Notice Board
Appendix H	Comments received from Interested and Affected Parties
Appendix I	Notes from Focus Group Meetings and Telephonic Conversations
Appendix J	Copies of Interested and Affected Parties' Registrations
Appendix K	Communications from Authorities



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DRAFT EIA REPORT

APPENDIX A

EIA Team and EAP/Specialists Declarations

LOCHNER, PAUL

Name of organisation: CSIR
Profession: Environmental Assessment and Management
Position in Firm: Project Leader
Date of Birth: 13 June 1969
Years with Firm: 19 years

BIOGRAPHICAL SKETCH

Paul Lochner commenced work at CSIR in 1992, after completing a degree in Civil Engineering and a Masters in Environmental Science, both at the University of Cape Town. His initial work at CSIR focused on sediment dynamics and soft engineering applications in the coastal zone, in particular, beach and dune management. He conducted several shoreline erosion analyses and prepared coastal zone management plans for beaches. He also prepared wetland management plans.

As the market for environmental assessment work grew, he led Environmental Impact Assessments (EIAs), in particular for coastal resort developments and large-scale industrial developments located on the coast; and Environmental Management Plans (EMPs), in particular for wetlands, estuaries and coastal developments. He has also been involved in researching and applying higher-level approaches to environmental assessment and management, such as Strategic Environmental Assessment (SEA). In 1998 and 1999, he coordinated the SEA research programme within the CSIR, and was a lead author of the Guideline Document for SEA in South Africa, published jointly by CSIR and the national Department of Environmental Affairs and Tourism in February 2000.

In 1999 and 2000, he was the project manager for the legal, institutional, policy, financial and socio-economic component of the Cape Action Plan for the Environment ("CAPE"), a large-scale multi-disciplinary study to ensure the sustainable conservation of the Cape Floral Kingdom. This was funded by the Global Environmental Fund (GEF) and prepared for WWF-South Africa. The study required extensive stakeholder interaction, in particular with government institutions, leading to the development of a Strategy and Action Plan for regional conservation.

In July 2003, he was certified as an Environmental Assessment Practitioner by the Interim Certification Board for Environmental Assessment Practitioners of South Africa. In 2004 he was lead author of the *Overview of IEM* document in the updated Integrated Environmental Management (IEM) Information Series published by national Department of Environmental Affairs and Tourism (DEAT). In 2004-2005 he was project manager for an Environmental and Social Impact Assessment (ESIA) conducted for a bauxite mine and alumina refinery in the Komi Republic (Russia), prepared in accordance with World Bank and EU policies, guidelines and standards.

In 2004-2005, he was part of the CSIR team that coordinated the preparation of the series of *Guidelines for involving specialists in EIA processes* prepared for the Western Cape Department of Environmental Affairs and Development Planning (DEADP); and authored the *Guideline for Environmental Management Plans* published by the Western Cape government in 2005.

Over the past 6 years has been closely involved with several environmental studies for industrial and port-related projects in Coega Industrial Development Zone (IDZ), near Port Elizabeth. This included an EIA and EMP for a proposed aluminium smelter, and assistance with environmental permit applications for air, water and waste. He has also conducted environmental assessments for port development, manganese export and rail development at the Coega IDZ and port. He also lead the EIA for a desalination plant in Namibia; an EIA for a wind energy facility near Jeffreys Bay, South Africa; and an EIA for a proposed crude oil refinery at Coega.

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

EDUCATION

1990	B.Sc. Civil Engineering (awarded with Honours)	University of Cape Town
1992	M. Phil. Environmental Science	University of Cape Town

EMPLOYMENT RECORD

January 1992 to June 1992: Completed Masters thesis, working in conjunction with the Environmental Evaluation Unit at the University of Cape Town. The thesis investigated the potential future ecological and socio-economic impacts resulting from the closure of a large diamond mining operation, and developed actions to mitigate these impacts.

October 1992 to present: Employed by the CSIR in Stellenbosch. Involved in coastal engineering studies, and various forms of environmental assessment and management studies. (A track record of experience is listed below).

PROFESSIONAL INVOLVEMENT IN COMMITTEES

1996/97:	Committee Member of the Western Cape Branch of the International Association for Impact Assessment (IAIA)
1997/98:	Chairperson of the Western Cape Branch of IAIA and member of the national IAIA committee
1998/99:	Committee Member of the Western Cape Branch of IAIA
1996 to present:	Chairperson of the Intaka Island/Blouvllei Environmental Committee at Century City, Cape Town (This committee is tasked with overseeing the management of a wetland in the midst of a new mixed-use urban development)

KEY EXPERIENCE

The table below presents an abridged list of Paul Lochner's project experience relevant to this proposal:

Completion Date	Project description	Role	Client
2011 - 2012	EIA for the 100 MW solar photovoltaic project proposed by Mainstream Renewable Power at Blocuso, near Keimoes in the Northern Cape	Project leader	Mainstream Renewable Power
2011 - 2012	EIA for the 100 MW solar photovoltaic project proposed by Mainstream Renewable Power at Roox Kop Farm, near Douglas, in the Northern Cape	Project leader	Mainstream Renewable Power
2011 - 2012	EIA for the 75 MW solar photovoltaic project proposed by Solaire Direct at GlenThorne, near Bloemfontein in the Free State	Project leader	Solaire Direct

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

2011 – 2012	EIA for the 75 MW solar photovoltaic project proposed by SolaireDirect at Valleydora , near Springfontein in the Free State	Project leader	Solaire Direct
2012 (in progress)	EIA for the 80 MW solar photovoltaic project by CAMAC on Farm O'Poort near postmasburg .	Project leader	CAMAC International
2010-2011	More than 10 Basic Assessments (BAs) for solar photovoltaic projects in the western cape, Northern Cape, Eastern Cape and Free State	Project leader	Various clients including Dutch, German, French and South African companies
2010/2011 (in progress)	EIA for the Langerfontein wind project near Darling , Western Cape.	Project leader	Mr Herman Qelsner , Khwe Khqa
2010/2011 (final report completed)	EIA for a 100 MW wind project at Zuurbron , and a 50 MW wind project Broadlands in the Eastern Cape	Project leader	WindCurrent SA (German-based company)
2010/2011 (final report completed)	EIA for the proposed 143 MW Biotherm wind energy project near Swellendam , Western Cape, South Africa	Project leader	Biotherm South Africa (Pty) Ltd
2010/2011 (final report completed)	EIA for the proposed InnoWind wind energy projects near Swellendam , Heidelberg , Albertinia and Mossel Bay (totalling approx 210 MW), Western Cape, South Africa	Project leader	InnoWind South Africa (Pty) Ltd
2009/2010 (authorisation granted by DEA in Aug 2011)	EIA for the proposed Electrawinds wind energy facility of 45-75 MW capacity in the Coega IDZ, Eastern Cape	Project leader	Electrawinds N.V. (Belgium)
2009/2010 (authorisation granted by DEA in April 2011)	EIA for proposed 180 MW Jeffreys Bay wind energy project, Eastern Cape	Project Leader and co-author	Mainstream Renewable Power South Africa
2009/2010 (authorisation granted by DEA)	Basic Assessment for the national wind Atlas for South Africa	Project leader	SANERI and SA Wind Energy Programme, Dept of Energy
2009/2010 (on hold)	EIA for the proposed Gecko soda plant, Otjiyavunda and Arandis , Namibia	Project leader	Gecko , Namibia
2009	EIA for the proposed desalination plant at Swakopmund , Namibia	Project leader	NamWater , Namibia
2009	EMP for the Operational Phase of the Berg River Dam , Franschoek , South Africa	Project leader and report co-author	TCTA, South Africa
2009/2010 (in progress)	EIA for the proposed crude oil refinery at Coega , South Africa	Project leader and lead author	PetroSA , South Africa
2008	Environmental Risk Review for proposed LNG/CNG import to Mossel Bay , South Africa	Project leader and lead author	PetroSA , South Africa
2008	Review of the Business Plan for catchment management for the Berg Water Dam Project , Franschoek , South Africa	Project reviewer and co-author	TCTA, South Africa
2007 – 2010 (in progress)	EIA for proposed Jacobsbaai Tortoise Reserve eco-development, Saldanha , Western Cape	Project Leader and co-author	Jacobsbaai Tortoise Reserve (Pty) Ltd
2007 – 2010 (in progress)	Independent reviewer for the EIA proposed Amanzi lifestyle development, Port Elizabeth	Independent reviewer appointed to advise EAP	Public Process Consultants and Pam Golding

2007 – 2008	EIA for proposed 18 MW Kouga wind energy project, Eastern Cape	Project Leader and co-author	Genesis Eco-Energy (Approved by DEDEA in March 2009)
2007	Review of EIA for the proposed Hanglip Eco-Development , Plettenberg Bay , Western Cape	Co-author of review of EIA, undertaken on behalf of DEADP	Dept of Environmental Affairs & Development Planning , Western Cape
2006 – 2007	Scoping phase for the EIA for the proposed Coega LNG-to-Power Project at the Port of Ngqura , Coega IDZ	Project Leader and co-author	Eskom and iGas
2006 – 2007	Guideline for Scoping, Environmental Impact Assessment and Environmental Management Plans for mining in South Africa	Project leader and co-author	Dept of Minerals and Energy (DME) , South Africa
2006	Environmental Impact Assessment (EIA) for the extension of the Port of Ngqura , Eastern Cape	Project Leader and co-author	Transnet
2006	Integrating Sustainability Into Strategy: Handbook (Version 1)	Project Leader and co-author	CSIR (STEP research report)
2005	Technology Review for the proposed aluminium smelter at Coega , South Africa	Project Leader and lead author	Alcan , Canada
2005	Environmental and Social Impact Assessment (ESIA) report for the proposed alumina refinery near Sesnoogorsk , Komi Republic, Russia	Project manager and co-author	Komi Aluminium, Russia, IFC , EBRD
2005	Guideline for Environmental Management Plans (EMPs) for the Western Cape province, including conducting a training course for provincial government	Author	Dept of Environmental Affairs & Development Planning , Western Cape
2005	Guideline for the review of specialist studies undertaken as part of environmental assessments	Member of Steering Committee and project facilitator	Dept of Environmental Affairs & Development Planning , Western Cape
2004	Review of Strategic Management Plan for Table Mountain National Park (2001-2004)	Reviewer and co-author	South African National Parks
2004	Strategic Needs Assessment Process for mainstreaming sustainable development into business operations	Researcher and co-author	CSIR (internal research)
2004	Environmental Monitoring Committees booklet in the IEM Information Series for DEAT	Contributing author	Department of Environmental Affairs and Tourism (DEAT)
2004	Overview of Integrated Environmental Management (IEM) booklet in the IEM Information Series	Lead author and researcher	DEAT
2003	Environmental Screening Study for gas power station, South Africa	Project Manager and lead author	Eskom , iGas and Shell
2003	Environmental Management Programme (EMP) Framework for the proposed Coega Aluminium Smelter ; and assistance with preparing permit and licence applications	Project Manager and lead author	Pechiney , France
2003	Environmental Management Plan for the Operational Phase of the wetlands and canals at Century City , Cape Town	Project leader and lead author	Century City Property Owners' Association



DRAFT EIA REPORT

2002	Environmental Impact Assessment for the proposed Pechiney aluminium smelter at Coega, South Africa	Project Manager and lead author	Pechiney, France
2002 - 2003	Research project: Ecological impact of large-scale groundwater abstraction on the Table Mountain Group aquifer	Project Manager	Water Research Commission
2002	Environmental Management Plan for the Eskom Wind Energy Demonstration Facility in the Western Cape	Co-author	Eskom
2001-2002	Environmental Impact Assessment for the Eskom Wind Energy Demonstration Facility in the Western Cape	Quality control & co-author	Eskom
2001	Environmental Due Diligence study of four strategic oil storage facilities in South Africa	Project manager and co-author	SFF Association
2000	Cape Action Plan for the Environment: a biodiversity Strategy and Action Plan for the Cape Floral Kingdom - legal, institutional, policy, financial and socio-economic component	Project manager and contributing writer	World Wide Fund for Nature (WWF): South Africa
1999	Environmental Management Plan for the establishment phase of the wetlands and canals at Century City, Cape Town	Project manager and lead author	Monex Development Company
1999	Environmental Management Programme for the Thesen Islands development, Knysna	Process design and Co-author	Chris Mulder Associates Inc; Thesen and Co.
1999	Management Plan for the coastal zone between the Eerste and Lourens River, False Bay, South Africa	Project manager and lead author	Heartland Properties and Somchem (a Division of Denel)
1998	Environmental Assessment of the Mozal Matola Terminal Development proposed for the Port of Matola, Maputo, Mozambique	Project manager and author.	SNC-Lavalin-EMS
1998	Strategic Environmental Assessment (SEA) for the Somchem industrial complex at Krantzkop, South Africa	Project manager and co-author	Somchem, a Division of Denel
1997	Strategic Environmental Assessment (SEA) for the proposed Industrial Development Zone and Harbour at Coega, Port Elizabeth, South Africa	SEA project manager and report writer	Coega IDZ Initiative Section 21 Company
1996	Environmental Impact Assessment of Development Scenarios for Thesen Island, Knysna, South Africa	Project manager and report writer	Thesen and Co.
1996	Environmental Impact Assessment of the Management Options for the Blouklip wetlands, Cape Town	Project manager and report writer	Jlco Homes Ltd (now Monex Ltd)

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

Lochner P, 2009: Case study - The role of environmental and social screening in informing the conceptual design and planning of large-scale projects in the pre-feasibility phase, in DBSA, 2009, *What works for us – a South African Country report for tactics, Tools and Methods for Integrating Environment and Development* (A South African Case study in partnership with the IIED), pp 37-38, Midrand, South Africa.

Lochner P, Munster F and Burns M, 2006. Integrating Sustainability into Strategy (ISIS): a process to inform sustainability strategies and frameworks, In: IAIA South Africa Annual Conference proceedings, South Africa.

Rossouw N and Lochner P, 2006. Environmental Monitoring Committees (EMCs): purpose, function and structure. In: IAIA South Africa Annual Conference proceedings, South Africa.

Munster F and Lochner P, 2006, Integrating Sustainability Into Strategy: Handbook (Version 1) – describing a process to inform sustainability strategies, frameworks and reports, CSIR Report ENV-S-1 2005-001, ISBN 0-7988-5560-6, Stellenbosch.

Van Zyl H, de Wit M, Munster F, Lochner P, Gerber G, 2005. Economics in Environmental Impact Assessment: demystifying the theory and practice, In: Conference Proceedings of the IAIA South Africa 2005 Annual National Conference. South Africa.

Lochner P, Weaver A, Gelderblom C, Peart R, Sandwith T and Fowkes S, 2003. Aligning the diverse: the development of a biodiversity conservation strategy for the Cape Floristic Region. *Biological Conservation* Vol. 112, ISSN: 0006-3207.

Lochner P, Munster F, Msutu M, Wren S, 2003. The role of stakeholder engagement in the EIA for the Coega Aluminium Smelter. In: Conference Proceedings of the IAIA South Africa 2003 Annual National Conference. ISBN 1-919891-04-8. South Africa.

Lochner P, Brooks W, Pesch P & Munster, M. 2003, Stakeholder engagement process in the EIA of an aluminium smelter, Published in *Light Metals* 2003 (Ed. Paul Crepeau), Published by TMS (the Minerals, Metals & Materials Society), ISBN Number 0-87339-531-X, USA.

Rossouw N, Audouin M, Lochner P, Heather-Clark, S and Wiseman K, 2000. Development of strategic environmental assessment in South Africa. *Impact Assessment and Project Appraisal*, Vol 18, no. 3, pp 217-223. United Kingdom.

Lochner P and Fowkes S, 2000. Building partnerships for the conservation of the biodiversity of the Cape Floral Kingdom: experiences and lessons learnt from the Cape Action Plan for the Environment. IAIA-SA Conference Proceedings 2000. South Africa.

Lochner P and Rossouw N, 1997. The development of an Environmental Management Plan for incorporating a wetland into a large mixed use development: the Century City example. IAIA-SA Conference Proceedings 1997. South Africa.

PUBLICATION RECORD

A comprehensive list of publications, book chapters and contract reports is available upon request, with a summary provided below.

Publications in journals, peer reviewed conference proceedings and CSIR internal research reports:

Weaver A, Pope J, Morrison-Saunders A & Lochner P, 2009, Contributing to sustainability as an environmental impact assessment practitioner, *Impact Assessment and Project Appraisal (IAPA)*, 26:2, 91-98. (This paper received the IAPA best paper award for 2009).

LANGUAGE CAPABILITY

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Afrikaans	Average	Average	Average



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF EAP AND DECLARATION OF INTEREST

File Reference Number:	(For official use only)
NEAS Reference Number:	12/12/20/
Date Received:	DEAT/

Application for integrated environmental authorisation and waste management licence in terms of the-
 (1) National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010; and
 (2) National Environmental Management Act: Waste Act, 1998 (Act No. 59 of 2008) and Government Notice 718, 2009

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Environmental Assessment Practitioner (EAP): ¹	Paul Lochner (CSIR)		
Contact person:	Paul Lochner		
Postal address:	PO Box 320 Stellenbosch		
Postal code:	7599	Cell:	
Telephone:	021 888 2486	Fax:	021 888 2693
E-mail:	plochner@csir.co.za		
Professional affiliation(s) (if any)	IAIA South Africa Certified Environmental Assessment Practitioner (since July 2003)		

Project Consultant:	CSIR		
Contact person:	Annick Walsdorff		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	awalsdorff@csir.co.za		

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

4.2 The Environmental Assessment Practitioner

I, **Paul Lochner**, declare that –

General declaration:

- I act as the independent environmental practitioner in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process;
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not;
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.



Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010;
- I have a vested interest in the proposed activity proceeding, such vested interest being:

A handwritten signature in black ink, appearing to read 'A. Odier'.

Signature of the environmental assessment practitioner:

CSIR

Name of company:

15 June 2012

Date:



WALSDORFF, ANNICK

Proposed position : Project Manager
Name of Firm : CSIR
Position in Firm : Senior Consultant
Profession : Chemical Engineer (environmental field)
Date of Birth : 21 December 1972
Years with Firm : 3 years
Nationality : Belgian

BIOGRAPHICAL SKETCH

Annick Walsdorff commenced work at Basse Sambre Engineering (Belgium) in 1999, after completing a degree in Chemical Engineering and a Masters in Chemical Engineering. Her initial work at Basse Sambre covered the conception and implementation of turnkey industrial installations for national and international tender documents in the mining, gas/petrol and environmental sectors (incineration, thermolysis, pyrolysis, waste segregation) and the study of their economic feasibility. Her role mainly encompassed plant design and optimisation, dimensioning of equipments, mass and energy balance, data analysis, suppliers management and budgeting for turnkey projects.

In 2001, she accepted a position at the Chemical Engineering Department, University of Stellenbosch as a project engineer and a lecturer. She was responsible for a variety of projects in the environmental field, mainly focusing on the development and implementation of Environmental Management Systems ISO14001 and Cleaner Production processes. Annick was also responsible for the Environmental Engineering course for final year students during the 2001 and 2002 academic year.

In 2004, she joined Techpros Realising Solutions in Stellenbosch as a project and system manager. Her main responsibilities within Techpros included consulting in the implementation and maintenance of integrated business risks based management systems (self declared and standardised systems – ISO14001, ISO9001, HACCP - with an emphasis on Environmental Management System) in various sectors. She was the project manager and main role player in the implementation of ISO14001 for two main multi-sites in South Africa (10 wineries in the Franschhoek Valley and 12 Medi-Clinic hospitals located throughout the country).

At the end of 2005, Annick joined Environmental Resources Management Southern Africa (ERM) where she has mainly been involved in a range of environmental and due diligence audits as well as legal register review. Annick has also been extensively involved in Quantified Risk Assessment in terms of the MHI Regulations, 2001 while working at ERM. She has developed extensive project management skills and has been exposed to a multitude of environmental issues pertinent to South Africa and other African countries (Central and West Africa) in a variety of industry sectors.

Since joining the CSIR in October 2008, Annick has been involved in the drafting of an Environmental Management Plan for the operation phase of the Berg River Dam (includes a new dam for water supply to the city of Cape Town), in the environmental screening for a new coastal manganese export terminal and managing Environmental Impact Assessments projects in South Africa, Namibia and Gabon. Her role within the CSIR Consulting and Analytical Services team primarily focus on the management of large EIAs and risk management projects.

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

EDUCATION AND AFFILIATIONS

1996 Degree in Chemical Engineering obtained with Great Distinction "Université Libre de Bruxelles" (Belgium)

1999 Masters in Chemical Engineering obtained with Cum Laude (Distinction) University of Stellenbosch

Additional short-courses:

- ISO 14001 Lead auditor course (ERM CVS), 2006
- Good Manufacturing Practice as a prerequisite for HACCP, CSIR, 2003
- ISO 14001 Internal Auditor Training Course, NOSA, 2002
- Waste Management for Environmental Managers, University of Potchefstroom, 2001
- Water Quality Management, University of Potchefstroom, 2001

Affiliations

International Association for Impact Assessments (IAIAs) – since August 2009.

EMPLOYMENT RECORD

October 2008 to present: Employed by the CSIR in Stellenbosch.

November 2005 to September 2008: Project manager / environmental consultant at Environmental Resources Management Southern Africa

January 2004 to October 2005: Project/System Manager - Techpros Realising Solutions/BPE

March 2001 to December 2003: Project Engineer and Lecturer - Chemical Engineering Department (University of Stellenbosch):

May 1999 to February 2001: Project Engineer - Basse Sambre Engineering (BS/ERI) – Belgium:

KEY EXPERIENCE RECORD

In the last 6 years, Annick has been mainly involved with project management (including contract and budget management, resources management, planning, invoicing, client communication etc.) related to environmental compliance auditing (environmental due diligence, regulatory and corporate standards assessments), the development and implementation of environmental management systems aspects as well as the undertaking of quantified risk assessment of Major Hazard Installations (technical and project management aspects).

The following table presents an abridged list of projects that Annick has been involved in, indicating her role in each project:

Date	Project description	Role	Client
Environmental Impact Assessments, Environmental Management Plans and Environmental Screening Studies			
2012-ongoing	Feasibility level Oil spill risk analysis <ul style="list-style-type: none"> Analysis of oil spill risks associated with crude oil transfers between a proposed tank farm at Saldanha bay and ships 	Project manager and coordinator	MOGS
2012-ongoing	Environmental Impact Assessment <ul style="list-style-type: none"> 3D seismic survey in the Kiarsseny Marin Block, Libreville, Gabon 	Project manager and coordinator	Tullow
2012-ongoing	Environmental Impact Assessment <ul style="list-style-type: none"> Exploration drilling in the Kiarsseny Marin Block, Libreville, Gabon 	Project manager and coordinator	Tullow
2012-ongoing	Environmental Impact Assessment <ul style="list-style-type: none"> Proposed Manganese Export Terminal, Port of Ngqura. 	Project manager and coordinator	Transnet
2010 - 2011	Environmental Impact Assessment: <ul style="list-style-type: none"> Phase 1A: The establishment of a mining process plant and the extraction of a 20 000 ton ore sample from the Beniomi Plateau, Franceville; Phase 1B: The development of a 300 000 ton/annum mining operation 	Project manager and coordinator	BHP Billiton Gabon
2010	Environmental screening study: proposed gas pipeline on the West Coast. <ul style="list-style-type: none"> Project manager, ongoing liaison with specialists and the client. Management (including sub-consultancy agreements, confirmation of scope of work, work schedule and sharing of information) and review of specialist studies (vegetation and archaeological study). Management and integrative writing of the Environmental Screening Report. Coordination of field trip. 	Project manager and coordinator	iGas
2009 - 2010	Environmental Impact Assessment: <ul style="list-style-type: none"> Exploration drilling in the Azobe Block, Port Gentil, Gabon 	Project manager and co-author	Tullow Oil Gabon
2009 - 2010	Feasibility level Oil spill response analysis - Coega Refinery: <ul style="list-style-type: none"> Project manager, ongoing liaison with specialists and the client. Management (including sub-consultancy agreements, confirmation of scope of work, work schedules and sharing of information) and review of specialist studies (legal review, hazard analysis, oil spill modelling). Coordination and facilitation of a workshop involving relevant competent authorities and key stakeholders (DEA (MCM), SAMSA, National Port Authorities, SANParks, Mandela Metropolitan Municipality, industry representatives). Management and integrative writing of the Feasibility level oil spill response analysis. 	Project manager and coordinator	PetroSA

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

2009	Environmental Impact Assessment for a proposed exploration drilling well in Gabon, West Africa. <ul style="list-style-type: none"> Project manager, ongoing liaison with specialists and the client. Management (including sub-consultancy agreements, confirmation of scope of work, work schedules and sharing of information) and review of specialist studies (socio-economic, oil spill modelling). Management and integrative writing of the Environmental Impact Report and Environmental Management Plan. Coordination of field trip - Management of in-country logistics and fieldwork-related activities. French interpretation and report translation editing. Presentation of the Environmental Impact Assessment to the competent authorities in Libreville, Gabon (Direction Générale de l'Environnement). Discussion and follow up of comments from the DGE. 	Project manager and coordinator	Tullow Oil Gabon
2009	Environmental Impact Assessment for a proposed desalination plant near Swakopmund. <ul style="list-style-type: none"> Project manager, ongoing liaison with specialists (10 specialists) and client Management and review of 10 specialist studies, including on going liaison with specialists and sharing of technical information. Management and integrative writing of most of the sections of the Environmental Impact Report and Environmental Management Plan. 	Coordination and management of specialist studies	NamWater
2008 - 2009	Environmental Management Program for the Berg River Dam in Franschoek. <ul style="list-style-type: none"> Project manager, ongoing liaison with specialists and the client. Management (including sub-consultancy agreements, scope of work, invoicing) and review of specialists inputs to the EMP. Coordination of workshops attended by specialists and the client. Management and integrative writing of the Environmental Management Plan. 	Project manager and coordinator	TCTA
Major Hazard Installation quantitative risk assessments and major risk screening			
2008	A Major Hazard Installation QRA for crude oil, alcohol, diesel, petrol and derivatives Terminal , including the storage of crude oil, alcohol, petrol, diesel and derivatives and associated operations.	Project manager	Confidential
2007 - 2008	Major Accident Risk Assessments , for five petroleum products depots/facilities (two in South Africa and three in Central Africa).	Project manager	Confidential
2007 - 2008	Major Risk screening assessments for more than 30 fuel depots in South Africa and consisted in the assessment of the consequences associated with worst case failure scenarios.	Project Manager and co-author	Confidential
2006 - 2008	Major Hazard Installation QRAs , for proposed and existing flammable and toxic installations, i.e. LPG, nitrogen, hydrogen and carbon dioxide storage installation.	Project Manager and co-author	Afrox
2007	A Major Hazard Installation QRA for a proposed diesel and lubricants installation.	Project Manager and co-author	Shell



APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

Environmental and corporate standards compliance programs			
2006 - 2008	<p>Environmental Compliance Program: Environmental compliance assessment of client facilities in Central and Southern African countries, including Chad, Congo, South Africa, Gabon and Mauritania.</p> <p>This program includes a site environmental compliance assessment and the development of an environmental legal summary and associated protocol.</p>	Project Manager, lead auditor and co-author	Confidential
2005 - 2008	<p>Environmental and corporate standards compliance audits. Compliance auditing for a number of beverage industries around Africa, including Southern Africa, DRC, Angola and Namibia.</p>	Project Manager, lead auditor and co-author	Confidential
2006	<p>A multi-site waste management audit. Waste management (including environmental compliance) audits undertaken for a number of pharmaceutical products distributors and two manufacturing plant.</p>	Project Manager, auditor and co-author	Alberto-Culver
2006	<p>A multi-site waste management audit. Waste management (including environmental compliance) audits undertaken at a number of waste disposal facilities.</p>	Project Manager, auditor and co-author	Alberto-Culver
2005 - 2006	<p>Environmental and corporate standards compliance audits. Project management for environmental compliance and assurance audits for West African countries, including Mali, Guinea and Burkina Faso.</p> <p>For all above environmental and corporate standards compliance auditing projects, roles included:</p> <ul style="list-style-type: none"> • Project manager (including contract sign-off, budget and resources management and allocation, project set-up, invoicing) and ongoing liaison with the client and members of team. • Conducting compliance auditing. • Coordination of field trip - Management of in-country logistics. • Management and writing of report. 	Project Manager	Confidential

LANGUAGE CAPABILITY

Language	Speaking	Reading	Writing
French	Excellent	Excellent	Excellent
English	Good	Good	Good
Afrikaans	Low	Average	Low



WREN, SANDRA

Name of organisation: Public Process Consultants
Profession: Environmental Consultant and Participation Specialist
Position in Firm: Manager
Date of Birth: 05 November 1967
Years with Firm: 10

BIOGRAPHICAL SKETCH

Sandy Wren is a graduate from the University of Port Elizabeth, majoring in Political Science, Sociology and Industrial and Organisational Psychology. Sandy obtained a BA Honours Degree in Development Studies in 2003 for which she obtained distinctions in courses in Environmental Management. Sandy specialises in public facilitation as well as the management of Scoping and Environmental Impact Assessments (EIA's) and Basic Assessment Reports (BAR's). She has extensive experience in the management and coordination of EIA's as well as public participation processes. The following lists some of the projects in which Sandy has played a role: EIA's for the Coega Industrial Development Zone and Port, Coega Aluminium Smelter, Sustainable Coastal Development Policy for SA, Proposed Liquid Natural Gas to Power Project at Coega, Proposed Poseidon to Grassridge Powerline for Eskom, meeting world Bank requirements on projects relating to the Expansion of the Addo Elephant National Park.

TERTIARY EDUCATION

1992	BA	University of Port Elizabeth
2003	BA Hons Development Studies	University of Port Elizabeth

KEY EXPERIENCE

The table below presents an abridged list of Sandra Wren's project experience relevant to this proposal:

Date	Project description	Role	Client
2006/7	Proposed Extension to the container berths and construction of an administration craft basin at the Port of Ngqura	Facilitation of Public Participation for the EIA	CSIR, c/o Transnet
2006	Coega Integrated LNG to Power Project	Facilitation of Public Participation for the EIA	CSIR c/o Eskom and iGas
2002 to present	EIA for the proposed Aluminium Smelter at the Coega IDZ	Facilitation of Public Participation for the EIA	CSIR c/o Pechiney, France
2001-2006	Expansion of the Addo Elephant National Park and proposed Marine Protected Area	Facilitation of Public Participation for the SEA	SANParks
1997	EIA for the Port of Ngqura, Rezoning of the Core Development Area, EMPR for Coega Kop	Facilitation of Public Participation for the EIA	Coega Development Corporation



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/12/20/
NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	Public Process Consultants		
Contact person:	Sandra Wren		
Postal address:	PO Box 27688, Greenacres		
Postal code:	6057	Cell:	082 4909 828
Telephone:	041 374 8426	Fax:	041 373 2002
E-mail:	sandy@publicprocess.co.za		
Professional affiliation(s) (if any)	n/a		

Project Consultant:	CSIR		
Contact person:	Annick Walsdorff		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	083 390 9009
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	awalsdorff@csir.co.za		

4.2 The specialist appointed in terms of the Regulations_

I, Sandra Wren, declare that –

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.


Signature of the specialist:

Public Process Consultants
Name of company (if applicable):

16 March 2012
Date:

DR CARTER, ROBIN

Name of organisation: Lwandle Technologies (Pty) Ltd
Profession: Marine Scientist
Position in Firm: Specialist in Marine Science Applications
Date of Birth: 07/05/1946
Years with Firm: 2 years

BIOGRAPHICAL SKETCH

I carried out post graduate studies in marine science at the University of Natal (Dbn) (MSc) and University of Cape Town (PhD). Subsequent to that I was employed by CSIR, Stellenbosch, leading the Marine Biology Division and Marine Biotechnology Programme as well as coordinating their overall marine science research programme. During this period (1983 – 1997) I led and participated in contract work on oil and gas developments on continental shelves, harbour development studies, primarily in Saldanha Bay and mariculture development focussing on abalone. After leaving CSIR in 1997 I practised as an independent specialist consultant in applied marine science. Main areas of work were in harbour development (Saldanha, Cape Town and Ngqura), specialist studies within marine oil and gas development EIAs, and investigations on marine discharges and technical reviews of marine monitoring practice and applications. In 2005 I joined Lwandle Technologies (Pty) Ltd, a BEE company focused on providing specialist scientific advice and measurement capabilities to commercial and state entities involved in marine and coastal development and enterprises. Our clients include oil and gas companies, Maersk Oil, Sonangol, Petrobras, Forest Oil and BP, with Shell and Sasol being indirectly served through other consulting groups, eg ERM. A significant component of our business is assessing and measuring the environmental effects of harbour development. Currently we are conducting studies for Rohde Nielsen AS and Transnet in the Port of Cape Town and Saldanha Bay. The latter is under sub-contract to CSIR, Stellenbosch. Marine discharges from another important element of business portfolio with our work ranging from effluent tracking through site specific evaluations to participating in provincial and national policy development.

Our experience specific to the Port of Ngqura consists of work in four investigations into various environmental effects of the Ngqura port development including dredging, industrial discharges and risk evaluations for the adjacent Marine Growers abalone farm at Hougham Park. Experience specific to LNG and gas development includes EIA work on the Kudu Field for Shell (via ERM) and warm water discharges from gas power stations in Namibia (Nampower) and Saldanha Bay (ESKOM) via sub-contracts with CSIR.

I am registered as Professional Natural Scientist in marine science with the South African Council for Natural Scientific Professions (registration # 400245/060) and am a professional member of the South African Institute of Ecologists and Environmental Scientists.

EDUCATION

Post-graduate studies

1978	MSc Biological Oceanography (Cum Laude)	Natal University. (Dbn)
1983	PhD. Marine Ecology	University of Cape Town

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

KEY EXPERIENCE

The table below presents an abridged list of Dr Robin Carter's project experience relevant to this proposal:

Date	Project description	Role	Client
Current	Marine environmental monitoring of dredging activities for berth deepening in Ben Schoeman Dock, Port of Cape Town	Project Leader	Rohde Nielsen AS
Current	Environmental assessments and specialist studies on dredging operations in Saldanha Bay	Principal Scientist	Transnet
2007	Environmental assessments and specialist studies on dredging operations in the Port of Ngqura	Principal Scientist	Transnet (through CSIR)
2006	Assessment of the potential marine ecology impacts of a desalination plant in KwaZulu Natal	Principal Scientist	Umgeni Water
2005	Preliminary ecological assessment of potential environmental fatal flaws – Saldanha Bay CCGT-Cooling water purge dispersion study	Ecologist	ESKOM (through CSIR)
2004	Evaluation of the environmental implications and sustainability of effluent management options in the Buffalo City Municipality	Ecologist	Development Bank of Southern Africa (with Sue Lane & Associates and Prof Alec Brown (UCT))
2003	Assessments of effluent discharges associated with various industrial developments in the Port of Ngqura and Coega Industrial Zone, South Africa	Ecologist	Coega Development Corporation (through CSIR)
2003	Specialist studies on marine ecosystems, functions and habitats as parts of Strategic Environmental Assessment (SEA) and EIA for the development of the Port of Cape Town	Ecologist	National Ports Authority (through CSIR)
2002	Specialist study – Marine Growers Abalone Farm (Coega) Risk Apportionment Study: Contaminant threshold levels and effects ranking for CSIR, Stellenbosch	Ecologist and mariculture specialist	National Ports Authority (through CSIR)
2002	Environmental, social and health impact assessment for the development of the Kudu Gas fields and onshore power station in southern Namibia	Ecologist	Shell Exploration and Production, Namibia
2000	Assessment of the potential impacts of the proposed Ngqura Port development on the Marine Growers Abalone farm.	Marine specialist	Coega Development Corporation (in association with Common Ground Consulting)
1998	Preliminary KUDU Power Plant environmental assessment: The discharge of hot water effluent into the marine environment	Ecologist	Namibian Power Corporation (Nampower) through CSIR
1997	Trace Metal contamination of the sea surface microlayer in Saldanha Bay: The potential role of ore concentrate handling at the General Cargo Quay	Principal Scientist	PORTNET, Saldanha Bay



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

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NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

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Specialist:	Dr Robin Carter		
Contact person:			
Postal address:	Lwandle Technologies, Unit 13 Constantiaberg BP, 31 Princess Vlei Rd, Diep River, Cape Town		
Postal code:	7800	Cell:	082 922 3504
Telephone:	021 705 6640	Fax:	021 705 6652
E-mail:	robin@lwandle.co.za		
Professional affiliation(s) (if any)	SACNASP registration # 400245/06		

Project Consultant:			
Contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

4.2 The specialist appointed in terms of the Regulations_

I, Robin Carter, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

Lwandle Technologies (Pty) Ltd
Name of company (if applicable):

2012/03/15
Date:



DR BRIAN COLLOTY

Name of organisation: Scherman Colloty & Associates cc
Profession: Ecologist & Environmental Assessment Practitioner
Ecology and conservation importance rating of wetlands, Rivers & Estuaries
Position in Firm: Member
Years Experience: 16 years

SKILLS BASE AND CORE COMPETENCIES

- Fifteen years experience in environmental sensitivity and conservation assessment of aquatic systems inclusive of Index of Habitat Integrity (IHI), WET Tools, Riparian Vegetation Response Assessment Index (VEGRAI) and wetland delineation.
- Nine years experience in the coordination and management of multi-disciplinary teams, such as specialist teams for large scale EIAs and environmental monitoring programmes
- GIS mapping and sensitivity analysis

MEMBERSHIPS

Pr. Sci. Nat. 400268/07
EAPSA certified

TERTIARY EDUCATION

- 1994: B Sc Degree (Botany & Zoology) - NMMU
- 1995: B Sc Hon (Zoology) - NMMU
- 1996: M Sc (Botany) - NMMU
- 2000: Ph D (Botany) - NMMU

EMPLOYMENT HISTORY

- 1996 – 2000 Researcher at Nelson Mandela Metropolitan University – SAB institute for Coastal Research & Management.
- 2001 – January 2003 Training development officer AVK SA
- February 2003- June 2005 Project manager & Ecologist for Strategic Environmental Focus
- July 2005 – June 2009 Principal Environmental Consultant Coastal & Environmental Services
- June 2009 – present Member of Scherman Colloty & Associates cc

SELECTED RELEVANT PROJECT EXPERIENCE

- Conducted a specialist State of the Environment assessment of riparian systems for Sedibeng Open Space system, Sedibeng District Municipality: 2005
- Various aquatic sensitivity assessments along the Klein Rietspruit and Klein Rietspruit Rivers, both tributaries of the Vaal River for Ceramics Industries (Vaderbijlpark): 2003 – 2005
- Assessment of various river systems for Gold Fields in Westonia and North West Province on the Vaal River: 2003 – 2005
- Aquatic impact assessment of the De Beer Holdings on the Renoster and Heuningspruit systems (Voorspoed to Vredefort): 2005
- Wetland and riverine assessment for Addax Biofeuls Sierra Leone, Makeni for Coastal & Environmental Services: 2009
- Wetland and riverine assessment for Grown Energy Biofeuls Zambeze, Mozambique for Coastal & Environmental Services: 2008
- Aquatic sensitivity assessment for Savannah Environmental on behalf of Abengoa Solar & Ilangaletu Solar Power for the proposed concentrated solar power stations in Pofadder (1) and Upington (2): 2010 & 2011
- VEGRAI & IHI assessment of 5 river crossings for the Wild Coast Meander near Coffee Bay for Terresco Engineers: 2010
- Developed a terrestrial and aquatic Environmental Management Plan for AURECON Pty Ltd on behalf of Eskom for the Eros (Harding) – Neptune (East London) 400kV transmission line: 2010
- Wetland Impact Assessment for Nu-Way Housing Coega Ridge for SRK Engineers and Scientists: 2010
- Terrestrial and aquatic sensitivity assessment for the Eskom Imbewu – Usundu transmission line from Howick to Empangeni for Aurecon: 2011
- Terrestrial and aquatic sensitivity assessment for the Eskom Kriel Power Station new ash dam facility for Aurecon: 2011
- Terrestrial ecology assessment and EMP for the Fibre Optic Data Cable Project - FIDEC routes (Bloemfontein to East London, Aliwal North to Middelburg, Middelburg to PE, PE to George and Graaff Reinet to Colesburg) for SRK Engineers and Scientists: 2011
- Lusikisiki waste water reticulation and treatment project, wetland assessment on behalf of the OR Tambo District Municipality for EIMS: 2011
- Various wetland assessment for the Coega Development Corporation on behalf of SRK and CES, 1996, 2006, 2009, 2010 and 2011.



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

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NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	Aquatic ecology		
Contact person:	Dr Brian Colloty		
Postal address:	1 Rossini Rd Pari Park Port Elizabeth		
Postal code:	6070	Cell:	0834983299
Telephone:	0413662077	Fax:	0413662077
E-mail:	brian@itsnet.co.za		
Professional affiliation(s) (if any)	SACNASP Pr Sci Nat (Ecologist) 400268/07, Certified EAP & member of SAIIES & SASAqs.		

Project Consultant:	CSIR		
Contact person:	Annick Walsdorff		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	083 390 9009
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	awalsdorff@csir.co.za		

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

4.2 The specialist appointed in terms of the Regulations_

I, Brian Colloty, declare that -

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Brian Colloty
Signature of the specialist:

Schuman Colloty & Associates
Name of company (if applicable):

15/03/2012.
Date:



HOLLAND, HENRY

Name of organisation: Map(this), Grahamstown, Eastern Cape
Profession: GIS Consultant / Visual Impact Assessment Specialist
Position in Firm: Owner
Date of Birth: 26 December 1968
Years with Firm: 3

BIOGRAPHICAL SKETCH

Henry has been doing GIS related work since 1992 when he started his M.Sc. in Geology. Since finishing his Masters he worked in Angola establishing a GIS department for a diamond exploration company, and free-lanced for eight years doing GIS and computer programming work. In 2005 he established the Mapthis Trust (map(this);) which provides geospatial services for a range of environmental and geological companies and projects. Henry has been involved in a number of Visual Impact Assessments since 1997 as GIS Coordinator and since 2006 he has completed five full Assessments.

TERTIARY EDUCATION

1996 M. Sc. Geology/GIS Rhodes University

KEY EXPERIENCE

The table below presents an abridged list of Henry's project experience relevant to this proposal:

Completion Date	Project description	Role	Client
2007	Visual Impact Assessment for Stuytville Bulk Water Supply	Author	Anton Bok and Associates
2007	Elitheni Coal Mining Scoping VIA	Author	Savannah Environmental (PTY) Ltd.
2007	Kouga Windfarm and Pump Station VIA	Author	CSIR
2006	Telkom Tower Replacement , Elarduspark, VIA	Author	Naledzi Environmental Consultants CC
2006	Loerie Chicken Broiler Housing VIA	Author	Public Process Consultants
2006	Hydra-Gamma Power Line VIA	GIS Coordinator	Bohlweki
2004	Eskom Breyten Strengthening Power Line VIA	GIS Coordinator	Bohlweki
2003	Eskom Eiland Power Line VIA	GIS Coordinator	Bohlweki



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Department:
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REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

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Date Received:	DEAT/EIA/

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	Henry Holland	
Contact person:	Henry Holland	
Postal address:	8 Catcart St. Grahamstown	
Postal code:	6139	Cell: 082 22 666 89
Telephone:	046 622 8735	Fax:
E-mail:	hholland@gmail.com	
Professional affiliation(s) (if any)		

Project Consultant:	CSIR	
Contact person:	Annick Walsdorff	
Postal address:	P O Box 320, Stellenbosch	
Postal code:	7599	Cell: 083 390 9009
Telephone:	021 888 2661	Fax: 021 888 2693
E-mail:	awalsdorff@csir.co.za	

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

4.2 The specialist appointed in terms of the Regulations,

1, Henry Holland, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

A. Holland
Signature of the specialist:

Name of company (if applicable):

20 March 2012
Date:

OOSTHUIZEN, RIËTHA

Name of organisation: CSIR
Profession: Medical Scientist
Position in Firm: Researcher
Date of Birth: 12 March 1951
Years with Firm: 19 years

BIOGRAPHICAL SKETCH

Main focus on environmental impact and risk assessment studies, indoor air quality surveys (industrial and non-industrial environment), chemotherapy research and medical technology (haematology). Wide experience with Human Health Risk Assessments and air quality specialist reporting for EIAs for LNG, gas power and port development projects. These include:

- Proposed Coega Integrated Lng – Power Project (CIP);
- Technology Review for the Coega Aluminium Smelter at Coega;
- Kudu Combined Cycle Gas Turbine Power Plant at Uubvlei;
- Eskom's Proposed Open Cycle Gas Turbine Power Station at Atlantis; and
- Proposed Tata Steel Ferrochrome Project at Richards Bay.

KEY QUALIFICATIONS

Knowledge and experience in:

- *Human health impact assessment and health risk assessment studies*
- *Ambient air quality surveys (industrial and non-industrial environment)*
- *Indoor air quality surveys (industrial and non-industrial environment)*
- *Chemotherapy research*
- *Medical technology (Haematology)*

EDUCATION AND PROFESSIONAL STATUS

Qualification	Institution	Year
MMedSc	University of KwaZulu Natal	2005
Approved inspection authority	Technikon Pretoria	1995
Registration Medical Scientist	Health Professions Council of South Africa MW 0005320	1993

Memberships:

- National Association for Clean Air
- Registered as a medical scientist with the Health Professions Council of South Africa

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

EMPLOYMENT AND EXPERIENCE RECORD

Period	Organisation details and responsibilities/roles
1989 – present	CSIR, Senior Scientist: Competency area: Climate Studies, Modelling and Environmental Health Environmental Impact Assessment (EIA) studies; Human health risk assessments; Vulnerability of SA low-income communities to environmental pollution
1984 – 1988	Part-time financial analysis at University of Pretoria
1982 – 1984	Chemotherapy research, HF Verwoerd Hospital, Pretoria
1977 – 1981	Suburban Homemaker, mother
1972 – 1976	Researcher: Department of Internal Medicine, UOFS: Haematology, Completed Honours Degree in Pathology (Haematology)

RECENT PROJECT EXPERIENCE:

Year	Description
2011	Project Leader: LanXess-CISA (Chrome International) air quality monitoring programme in New Castle Project Leader: Lonmin air quality monitoring programme in North West Province Project leader: Continuation of Health Risk Assessment in the Vaal Triangle; an epidemiology study to compare the current respiratory health status of children to that of the 1990 VAPS study. Part time lecturer: Environmental Epidemiology TUT Senior Researcher: Continuation of human health risk assessment to air pollution in a community within the Highveld Air Pollution Priority Area Senior Researcher/Human Health Risk Assessor: Human health risk assessment of metals in dust at Kumba mine, Sishen, Northern Cape.
2010	Project Leader: LanXess-CISA (Chrome International) air quality monitoring programme in New Castle Project Leader: Lonmin air quality monitoring programme in North West Province Project leader: Baseline health study in Lephalale Local Municipality Project leader: Health risk assessment in the Vaal Triangle; an epidemiological study to compare the current respiratory health status of children to that of the 1990 VAPS study. Part time lecturer: Environmental Epidemiology TUT Senior Researcher: Continuation of analyses of the <i>in vivo</i> experiments involving a murine model to determine adverse effects of nanoparticles Senior Researcher: Human health risk assessment to air pollution in a community within the Highveld Air Pollution Priority Area Senior Researcher/Human Health Risk Assessor: Human health risk assessment of PAHs at MOZAL, Mozambique.
2009	Project Leader: Chrome International air quality monitoring programme in New Castle Project Leader: Lonmin air quality monitoring programme in North West Province Senior Researcher/Health Risk Assessor: Human health risk assessment for the proposed KwaDukuza landfill site in KwaZulu-Natal. Lectures as part of short courses – School of Public Health – UP Part time lecturer: Environmental Epidemiology TUT Senior Researcher/Health Risk Assessor: Human health risk assessment for the proposed Alfluroco Chemical Plant EIA at Richards Bay in KwaZulu-Natal. Senior Researcher: Continue with the <i>in vivo</i> experiments involving a murine model to determine adverse effects of nanoparticles.



APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

- 2008 Project Leader: Assmang air quality monitoring.
Project Leader: Chrome International air quality monitoring programme in New Castle
Project leader/Senior Researcher: Determining exposure of small-scale gold miners to mercury
Senior Researcher/Air Quality Specialist: Mpumalanga Department of Agriculture and Land Administration: Development of a Municipal Integrated Pollution Control Model.
Senior Researcher: South African National Energy Research Institute: Development of a tool to scientifically assess the effectiveness of interventions in mobility management
External examiner: Masters dissertation Tshwane University of Technology.
Lectures as part of short courses – School of Public Health – UP
Part time lecturer: Environmental Epidemiology TUT
Senior Researcher: Review of studies on air pollution in dense low-income communities A project for DEAT/DANIDA.
External Reviewer: Human health specialist study in an EIA
Senior Researcher: Review epidemiology studies done in the Western Cape as input to an air quality management plan for the Western Cape
Senior Researcher/Health Risk Assessor: Human health risk assessment for the Transnet Pipeline EIA
Senior Researcher/Health Risk Assessor: Human health risk assessment for the Proposed N2 Wild Coast Toll Highway EIA.
Senior Researcher: *In vivo* experiments involving a murine model to determine adverse effects of nanoparticles.
- 2007 Project Leader: Assmang air quality monitoring.
Project Leader: Chrome International air quality monitoring programme in New Castle
Researcher: 2nd year of Epidemiology study to determine vulnerability of South African low-income communities to air pollution;
Lectures as part of short courses – School of Public Health – UP
Visited international experts in nanotechnology in the UK, Scotland and Switzerland
Senior Researcher/Human Health Risk Assessor: Air quality and human health specialist study for the proposed Coega Integrated LNG to Power Project (CIP) within the Coega Industrial Zone, Port Elizabeth, South Africa.
- 2006 Project Leader: Assmang air quality monitoring.
Project Leader: Chrome International air quality monitoring programme in New Castle
Researcher: Epidemiology study to determine vulnerability of South African low-income communities to air pollution
Researcher & Air Quality Specialist: State of Environment Report –Nkangala District Municipality
Human Health Risk Assessor: EIA for Natal Portland Cement (Pty) Ltd for the Proposed AFR Programme at the Simuma Plant, Port Shepstone
External examiner: MMedSc dissertation University of KZN
Lectures as part of short courses – School of Public Health – UP
Researcher and Air Quality Specialist: Strategic Environmental Assessment Cape Winelands District Municipality
Researcher/ Human Health Risk Assessor: EIA Sasol Benzene Reduction Plant.

PUBLICATION RECORD

A comprehensive list of publications, book chapters and contract reports is available upon request.



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number:	(For official use only)
NEAS Reference Number:	12/12/20/
Date Received:	DEAT/EIA/

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:
Professional affiliation(s) (if any)

Human Health
M A Oosthuizen
PO Box 895 Pretoria
0001
012 841 2035
012 841 2689
aoosthuie@csir.co.za
HPCSA (Health Professions Council of SA)

Project Consultant:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:

CSIR
Annick Walsdorff
P O Box 320, Stellenbosch
7599
021 888 2661
083 390 9009
021 888 2693
awalsdorff@csir.co.za

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

4.2 The specialist appointed in terms of the Regulations_
I, Mania A Oosthuizen, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

M A Oosthuizen
Signature of the specialist:

CSIR
Name of company (if applicable):

19 March 2012
Date:

POTE, JAMIE

Name of organisation: Independent
Profession: Botanical Specialist Consultant
Position in Firm: Sole proprietor
Date of Birth: 15 May 1974
Years with Firm: Five

BIOGRAPHICAL SKETCH

Jamie Pote has wide ranging experience in biophysical site assessments, botanical specialist studies, environmental impact specialist reports (botanical specialist reports), EMP's and rehabilitation plans in South Africa (Eastern Cape and eastern Western Cape), as well as Mozambique, Namibia and Democratic Republic of Congo. He has broad experience in all Eastern Cape vegetation types, particularly Fynbos, Forest, Woodland and Savanna, Thicket, Karroid, Riparian and Coastal Dunes. Jamie's project experience largely falls into the following areas:

- **Biophysical site assessments (Botanical)**
Jamie conducts biophysical site assessments, particularly in the Eastern Cape, specialising in terrestrial and riparian vegetation studies (indigenous and invasive alien species).
- **Environmental Impact Specialist Reports**
Jamie performs botanical specialist studies for pre-feasibility, Scoping and EIR's specialising in all vegetation types, including coastal dunes, thicket and thicket mosaics, forest, grassland, Fynbos, Karroid, transformed areas and riparian zones.
- **Restoration and Rehabilitation**
Jamie has a broad understanding of alien invasive plant ecology and restoration ecology, performing site assessments and making recommendations on removal and follow up management. This includes post-mining rehabilitation and re-vegetation plans.
- **Geographical Information Systems**
Jamie has broad and extensive experience in GIS, particularly relating to vegetation mapping and map production as well as Internet Map Servers and Database Servers.
- **Non timber forest products**
Jamie has research experience in various projects involving the utilization (forest resource assessments) and management of natural botanical resources.
- **Climate change and Carbon trading**
Jamie has experience in a number of projects involving various aspects relating to climate change and carbon trading.

TERTIARY EDUCATION

2002	BSc Honours (Botany)	Rhodes University
2001	BSc (Botany & Environmental Science)	Rhodes University

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

KEY EXPERIENCE

The table below presents an abridged list of Jamie Pote's project experience relevant to this proposal:

Date	Project description	Role	Client
2003	Botanical specialist study and field assessment for the Chris Hani District Municipality State of the Environment report	Botanical Specialist	Chris Hani Municipality SoER
2004 - 2005	Botanical specialist consultant for the planning and implementation of an indigenous nursery and training centre specialising in the cultivation of medicinal and other rare and endangered plant species	Botanical Specialist	Umthathi Africulture Centre
2004 present	- Various botanical assessments for small, medium and large mining activities, including various Area-Wide Road Maintenance (AWRM) borrow pits in the Eastern Cape Elitheni Coal mine in Indwe; mining permit and mining right application botanical Assessments, EMP's and maps as well as the Kalakundi Copper Cobalt Vegetation Assessment in the Democratic Republic of Congo	Botanical Specialist	Various small, medium and large mining activities
2004 present	- Numerous botanical specialist studies and biophysical site assessments for many local developments (ranging from high density housing developments to Eco-estate and golf-course style developments) for pre-feasibility, scoping and EIR's particularly in the Port Elizabeth, East London; Jeffreys Bay and Plettenberg Bay municipalities.	Botanical Specialist	Port Elizabeth, East London, Jeffreys Bay and Plettenberg Bay municipalities
2005 - 2007	Botanical specialist assessment report and site assessment for the proposed leisure park development and various GIS maps	Botanical Specialist	Madiba Bay Leisure Park, Port Elizabeth
2005 - 2007	Botanical investigations and compiled botanical reports and EMPS for powerlines for the Steynsburg/Teebus; Mthatha and Grassridge – Dedisa lines (Ngqura)	Botanical Specialist	Eskom Powerline Botanical Assessments
2006 - 2007	Riparian assessment for three proposed gauging weirs along the Vaal/Orange Rivers.	Botanical Specialist	Vaal/Orange gauging weirs
2006 present	- Various projects within the Coega IDZ: including botanical surveys, EMP's and vegetation assessments have been undertaken.	Botanical Specialist	Coega IDZ



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/12/20/
NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	Botanical Specialist	
Contact person:	Jamie Pote	
Postal address:	Postnet Suite 177, Private Bag X0002, The Fig Tree, Port Elizabeth	
Postal code:	6033	Cell: 083 743 9353
Telephone:	083 743 9353	Fax: 0866 503 506
E-mail:	jamiepote@aerosat.co.za	
Professional affiliation(s) (if any)		

Project Consultant:	CSIR	
Contact person:	Annick Walsdorff	
Postal address:	P O Box 320, Stellenbosch	
Postal code:	7599	Cell: 083 390 9009
Telephone:	021 888 2661	Fax: 021 888 2693
E-mail:	awalsdorff@csir.co.za	

4.2 The specialist appointed in terms of the Regulations_

I, Jamie Pote, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

Name of company (if applicable):

15 March 2012

Date:

DR ZUNCKEL, MARK

Name of organisation: CSIR
Profession: Air Pollution Meteorologist
Position in Firm: Principal Atmospheric Scientist
Date of Birth: 3 April 1959
Years with Firm: 14 years

BIOGRAPHICAL SKETCH

Mark Zunckel commenced work at CSIR in 1992 and has been involved in numerous specialist air quality and human health impact assessment and air quality management planning programmes. He is a meteorologist with specialist capabilities in dispersion modelling and air quality management planning, and has focused on specialist consulting and research in the field of air quality management for industrial clients and local, provincial and national government. He is a registered Professional Natural Scientist and a member of the National Association for Clean Air. Of key relevance to this proposal is his previous involvement in air quality specialist studies for proposed developments in the Coega IDZ. He also has experience in conducting air quality specialist studies in the field of electricity generation for coal-fired, open cycle gas turbine and close cycle gas turbine plant. Mark is currently assisting the Department of Environmental Affairs and Tourism in aspects of the roll-out of the new air quality legislation in South Africa. His current research is in the field of photochemical dispersion modelling on a local and regional scale and in its applications in air quality forecasting.

MEMBERSHIPS

Honorary Professor: University of KwaZulu-Natal
Council Member: National Association for Clean Air
Branch Chairman: National Association for Clean Air
Member: African Meteorological Society
Member: Air and Waste Management Association

EDUCATION

1980	National Diploma (Meteorology)	Technikon Pretoria
1984	B.Sc. (Meteorology)	University of Pretoria
1988	B.Sc. (Hons) (Meteorology)	University of Pretoria
1992	M.Sc.	University of Natal
1999	Ph.D.	University of Witwatersrand

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS EMPLOYMENT AND EXPERIENCE RECORD

1976 – May 1992	South African Weather Bureau: Observer, junior forecaster, senior forecast, researcher, assistant director
June 1992 – July 2007	CSIR: Consultant and researcher, Research group Leader: Atmospheric Impacts
Aug 2007 to present	uMoya-Nilu Consulting: Senior air quality management consultant, managing director

KEY EXPERIENCE

The table below presents an abridged list of Mark Zunckel's project experience relevant to this proposal:

2001	Project leader & Principal researcher: Air quality specialist study for the Environmental Impact Assessment for the proposed expansion of the Hillside Aluminium Smelter, Richards Bay.
2001-2003	Researcher: The Cross Border air Pollution Impact (CAPIA) project. A 3-year modelling and impacts study in the SADC region.
2002	Project leader & Principal researcher: Air quality assessment specialist study for the proposed Pechiney Smelter at Coega.
2002	Project leader & Principal researcher: Air quality assessment specialist study for the proposed N2 Wild Coast Toll Road.
2002-2005	Project leader on the NRF project – development of a dynamic air pollution prediction system
2004	Project leader on the specialist study for expansion at the Natal Portland Cement plant at Simuma, KwaZulu-Natal.
2004-2005	Researcher: National Air Quality Management Plan implementation project for Department Environmental Affairs and Tourism.
2004	Principal researcher on the Air quality study for the EIA for the Kudu Gas EIA in Namibia for Nampower
2005	Researcher in the assessment of air quality impacts associated with the expansion of the Natal Portland Cement plant at Port Shepstone.
2005	Technical assistance to the Department of Environment Affairs and Tourism in the implementation of the Air Quality Act
2006-2007	Project team leader of a multi-national team to develop the National Framework for Air Quality Management for the Department of Environment Affairs and Tourism
2007	Air quality assessment for Mutia Early Production System in Uganda for ERM Southern Africa on behalf of Tullow Oil.
2007-2011	Lead consultant on the development of a dust mitigation strategy for the Bulk Terminal Saldanha and an ambient guideline for Fe ₂ O ₃ dust for Transnet Projects and on-going monitoring.
2008	Lead consultant on the Air quality status quo assessment and scoping for the EIA for the Sonangol Refinery
2008-09	Lead consultant on the development of the air quality management plan for the Western Cape Provincial. Department of Environmental Affairs and Development Planning.



APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

2008-11	Lead consultant on the development of the Highveld Priority Area air quality management plan for the Department of Environmental Affairs and Tourism.
2008	Lead consultant in the development of an odour management and implementation strategy for eThekweni.
2008 & 2010	Lead consultant on the Air Quality Specialist Study for the EIA for the proposed Kalagadi Manganese Smelter at Coega
2008	Lead consultant on the Air Quality Assessment for the Proposed Construction and Operation of a Second Cement Mill at NPC-Cimpor, Simuma near Port Shepstone.
2008	Lead consultant on the Air Quality Specialist Study Report for the New Multi-Purpose Pipeline Project (NMPP) for Transnet Pipelines.
2008	Lead consultant on the Air quality assessment for the proposed UTE Power Plant and RMDZ coal mine at Moatize, Mozambique for Vale.
2009	Lead consultant on the Air quality assessment for the development of the ETA STAR coal mine at Moatize, Mozambique for Impacto.
2008-09	Lead consultant on the Dust source apportionment study for the Coedmore region in Durban for NPC-Cimpor.
2009	Consultant on the Air quality specialist study for the upgrade of the Kwadukuza Landfill, KwaZulu-Natal
2009-10	Lead consultant on the Audit of ambient air quality monitoring programme and air quality training for air quality personnel at PetroSA
2010	Lead consultant on the Qualitative assessment of impact of dust on solar power station at Saldanha Bay
2010	Lead consultant on the Air quality specialist study for the EIA for the Kalagadi Manganese Smelter at Coega
2010	Lead consultant on the Qualitative air quality assessment for the EIA for the Sechaba Asphalt plant, Ferrobank
2009-10	Lead consultant on the Air quality specialist study for the Environmental Management Framework for the Port of Richards Bay
2010	Lead consultant on the Air quality status quo assessment and abatement planning at Idwala Carbonates, Port Shepstone
2010	Lead consultant on the Air quality status quo assessment and abatement planning at Sappi Tugela, Mandeni
2010	Air quality status quo assessment and revision of the Air Quality Management Plan for City of Johannesburg
2010	Lead consultant on the Air quality status quo assessment and abatement planning at First Quantum Mining's Bwana Mkubwa and Kansanshi mines, Zambia
2010 - 2011	Lead consultant on the Air quality specialist study for the EIA for the Alternative Fuel and Resources Project at Simuma, Port Shepstone
2010 - 2011	Lead consultant on the Air quality specialist study for the EIA for the Coke Oven re-commissioning at ArcelorMittal Newcastle
2010	Qualitative air quality assessment for the EIA for the Mozpel sugar to ethanol project, Mozambique
2011	Air quality assessment for the Jindal Open Cast Coal mine in Tete Province, Mozambique
2011	Air quality assessment for the Copeland Reactors at 3 paper mills as input to appropriate minimum emission standards
2011	Air quality assessment for the baseline and energy efficiently project at Sappi Tugela
2011	Air quality assessment for the proposed briquetting plant at Mafube Colliery in Mpumalanga
2011	Dust management planned manganese terminal development at Saldanha Bay
2011	Initial work on the development of the National Emission Inventory as part of the South African Air Quality Information System.
2011	Air quality assessment for the Arnot Power Station biomass substitution project



environmental affairs

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Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	uMoya-NILU Consulting (Pty) Limited		
Contact person:	Dr mark Zunckel		
Postal address:	P O Box 20622, Durban North		
Postal code:	4016	Cell:	083 690 2728
Telephone:	031 266 7357	Fax:	031 266 7307
E-mail:	mark@umoya-nilu.co.za		
Professional affiliation(s) (if any)			

Project Consultant:	CSIR		
Contact person:	Annick Walsdorff		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	083 390 9009
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	awalsdorff@csir.co.za		

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

4.2 The specialist appointed in terms of the Regulations_

I, _____, declare that –

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
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- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

uMoya-NILU Consulting (Pty) Ltd
Name of company (if applicable):

Date: 2012-03-17

SIGNED AND SWORN BEFORE ME AT GLENASHLEY ON
THE 17 MARCH 2012

COMMISSIONER OF OATHS
BRANCH MANAGER
41 NEWPORT DRIVE
GLENASHLEY
4022 DATE:



PATRICK D MORANT

Nationality British
Profession Environmental Scientist
Specialisation Coastal environmental management, environmental impact assessment
Language proficiency English (mother tongue); Afrikaans (basic); Swahili (basic); French (basic)

FIELD OF EXPERTISE

- (i) Coastal environmental management, environmental impact assessment and environmental planning (opportunities and constraints analysis).
- (ii) Estuarine ecology and wetland classification.
- (iii) Ornithology - bird banding (ringing) and distribution studies.
- (iv) Food microbiology.

SKILLS AND EXPERIENCE

- Twenty eight years experience of coastal environmental management and environmental impact assessment in Sub-Saharan Africa. Experience in the management of multi-disciplinary project teams in commercial and academic situations.
- Wetland ecology and classification. Specialist expertise in the management of estuarine ecosystems.
- Ornithology: Primarily in the management of bird ringing (banding) studies in southern Africa and the sub-Antarctic.
- Assessment of spoilage in canned and other food products, food factory hygiene, and the management of food factory wastes and waste disposal

EDUCATION AND PROFESSIONAL STATUS

BSc Zoology and Microbiology University of Cape Town 1968
BSc (Hons) Microbiology University of Cape Town 1969
MSc Environmental studies University of Cape Town 1982

Professional member: South African Institute of Ecologists and Environmental Scientists.
Registered Natural Scientist, South African Council for Natural Scientists.
Member: BirdLife South Africa
Member: IUCN/SSC Flamingo Specialist Group

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

EMPLOYMENT RECORD

2006 – date: Retired from CSIR but retained on a contractor/consultancy basis with particular emphasis on the provision of advisory, mentoring and review services.

2002 - 2006: Principal Environmental Consultant, Environmental Assessment, Air and Energy Programme, Environmentek, CSIR.

1996 - 2002: Business Area Manager, Coastal Development and Marine Resources Programme, Environmentek, CSIR. At the end of 1995 three CSIR Divisions, Ematek, Forestek and Watertek, were amalgamated to form the new Division of Water, Environment and Forest Technology (Environmentek).

The development and management of business in environmental management, particularly environmental impact assessment and strategic environmental assessment, in the coastal zone of the Western and Eastern Cape Provinces, Namibia and further afield.

1993 - 1995: Project Manager, Coastal Development Programme, EMATEK.

The coastal development core competency was down-sized and restructured into a single programme. Main role was to develop the Division=s Integrated Environmental Management (IEM) business with particular emphasis on Namibia and the Western Cape and the offshore oil prospecting and marine diamond mining industries.

1991-1992: Programme Manager, Coastal Environmental Management Programme (CEM), EMATEK.

EMATEK was re-structured on a core competency basis with CEM being one of four programmes within the Coastal Development core competency. CEM comprises two teams respectively addressing coastal zone management and marine pollution. The size of the business is ca. R5 000 000 per annum.

1989 - 1991: Programme Manager, CPMA, EMATEK. The management of a multidisciplinary team (engineers, biologists, geologists), addressing environmental management in the coastal zone. This included the assessment of physical and biotic processes and their interaction with various anthropogenic factors. The Programme Manager is responsible for the viability of the business (ca. R5 000 000 per annum), quality of the product, development of a research programme in support of contracts, human resource management, etc.

1988 - 1989: Project Leader, Coastal Processes and Management Advice Programme (CPMA), Division of Earth, Marine and Atmospheric Science and Technology (EMATEK), CSIR, Stellenbosch.

Essentially the task consisted of a continuation of the work for DEA, i.e. synthesis of estuary data and site investigations. Additional tasks included developing and producing physical and botanical sensitivity maps of the administrative coastal zone. A secondary task was the investigation of the possibility of exploiting unconventional marine resources, e.g. sea urchins. The conclusion of this project was that culture of abalone was likely to produce the most commercially viable product. Consequently EMATEK took the decision to invest in the development of abalone culture and assigned a dedicated team to the task from 1989.



DRAFT EIA REPORT

- 1983 - 1987: Head, Estuarine and Coastal Research Unit. Continuation of the estuary report series and site-specific environmental investigations for the Department of Environment Affairs (DEA) were the main tasks for this period. The annual value of the contract for DEA was R500 000 in 1991. Additional activities included contribution to a coastal sensitivity atlas for use in oil spill contingency planning.
- During 1987 the CSIR was restructured to assume a commercialized, market-related approach to Research, Development and Implementation.
- 1982: Research Officer, Estuarine and Coastal Research Unit, CSIR, Stellenbosch, South Africa. Prime task was the production, under contract to the Department of Environment Affairs, of reports synthesising the available information on the estuaries of the Cape Province. Special emphasis was placed on the inclusion of management recommendations.
- 1982: Overseas travel: South America, USA, UK.
- 1981: Full-time M.Sc. student, University of Cape Town. Completion of thesis: *Wetland Classification: a review of existing wetland classification systems and their applicability in southern Africa.* (Awarded 1982.)
- 1977 - 1981: Officer-in-Charge, South African Bird Ringing Unit (SAFRING), Cape Town. SAFRING serves the interests of ornithologists primarily in southern Africa south of the Zambezi but also in Malawi and the Sub-Antarctic. Duties of the Officer-in-Charge include:
- * Data bank - the maintenance of a computerized data bank containing 25 000-plus records of birds ringed in southern Africa and recovered elsewhere and vice versa.
 - * Contact with foreign bird ringing schemes - an essential task to ensure the full interchange of ringing and recovery data. Regular contact was maintained with 20-plus countries in the northern hemisphere as well as Australia, New Zealand and Chile.
 - * Support of bird ringers in southern Africa - storage of ringing data, supply of rings and ringing tools, importation of mist nets, assistance with the obtaining of permits, etc.
 - * Handling of recovery data - including correspondence with the finder, verification of data, reporting to the original ringer and entry into data bank.
 - * Communication - editing and production of *Safring News* as a means of communication between bird ringers in southern Africa and elsewhere in the world.
 - * Reports and publications - analysis of data in the SAFRING data bank for publication in refereed journals and less formal reports.

EXPERIENCE RECORD - CONTRACT PROJECTS

The table below presents an abridged list of Pat's project experience:

- 2011 C.A.P.E. Estuaries Programme: Development of Gouko Estuary management plan for GEF C.A.P.E. Estuaries Programme (CapeNature)

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

- 2011 Environmental study of Kunene River mouth region for EIA of proposed Baynes hydropower project, Kunene River, Namibia/Angola border for Environmental Resources Management (Southern Africa) Pty Ltd (ERM)
- 2010 Coega Refinery: feasibility level oil spill response analysis, Part I: oil spill preparedness and response plan for PetroSA, Parow, South Africa
- 2010 EIA for Jeffrey's Bay wind project for Mainstream Renewable Power, South Africa
- 2010 EIA for the BioTherm wind energy project at the Uitkyk/Excelsior site near Swellendam, Western Cape for BioTherm Energy (pty) Ltd, South Africa
- 2009 EIA for the proposed Desalination Project at Mile 6 near Swakopmund, Namibia for NamWater, Windhoek, Namibia
- 2009 Environmental screening study for the proposed development of an offshore ship and rig maintenance and repair facility, Port of Walvis Bay, Namibia for WML Coast (Pty) Ltd, Namibia
- 2009 EIA of proposed strategic expansion of the Port of Walvis Bay container terminal for Namport (Namibian ports Authority)
- 2009 C.A.P.E. Estuaries Programme: Development of the Verlorenvlei Estuary management plan: situation assessment for GEF C.A.P.E. Estuaries Programme (CapeNature)
- 2007 Preliminary environmental assessment of a single point mooring in St Helena Bay for Transnet Projects.
- 2005 Technical and economic feasibility assessment of poverty alleviation projects on the coasts of KwaZulu-Natal and Eastern Cape Province for the National Department of Environmental Affairs and Tourism.
- 2005 Assessment of the physical and socio-economic effects of climate change in the Western Cape for The Government of the Western Cape Province.
- 2005 Integrated Environmental Management Information Series: Documents No. 17-21 for The Department of Environmental Affairs and Tourism, South Africa.
- 2004 Operational Policy for the Disposal of Land-derived Water Containing Waste to the Marine Environment of South Africa for Department of Water Affairs and Forestry, South Africa.
- 2003 Integrated Environmental Management Information Series: Documents No. 0 and 7-16 for The Department of Environment Affairs and Tourism, South Africa.
- 2003 Walvis Bay Local Agenda 21 Project, Namibia: Coastal Area Study – Review of Ecology Study for COWI, Lyngby, Denmark/Danida.
- 2002 Integrated Environmental Management Information Series: Documents No. 1-6 for The Department of Environment Affairs and Tourism, South Africa.
- 2002 Review of effectiveness of environmental impact assessment in the Southern African Development Community region for Southern African Institute for Environmental Assessment.
- 2002 Environmental Impact Assessment of a refined petroleum products impact terminal, Banjul, The Gambia for Gamfuels Consortium.



DRAFT EIA REPORT

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

2002 Review of Local Agenda 21 Project, Walvis Bay, Namibia for COWI Consultants/Daneda, Denmark.

2001 Environmental Impact Assessment of geophysical prospecting and sampling for heavy minerals on the continental shelf of northern KwaZulu-Natal, South Africa for Richards Bay Minerals.

2001 Environmental Management Programme for geophysical prospecting and sampling for heavy minerals on the continental shelf of northern KwaZulu-Natal, South Africa for Richards Bay Minerals.

2001 Report on the natural environment of the Orange River mouth for the Orange River Mouth Development Plan (in association with Pulles Howard and de Lange) for the Gariiep Spatial Development Initiative, Northern Cape Province.

2001 South African country report for the Development and Protection of the Coastal and Marine Environment in Sub-Saharan Africa project for the Advisory Committee on Protection of the Sea (ACOPS), London, UK.

2001 Description of the coastal and marine environment of the Republic of Congo for Continental Shelf Associates Inc, Florida, USA.

2000 Development/identification of state of the environment indicators for physical processes in the coastal zone for the South African Department of Arts, Culture, Science and Technology.

2000 Environmental Management Programme Report for exploration drilling in Block 17/18 on the continental shelf of KwaZulu-Natal, South Africa (Addendum report) for Phillips Petroleum South Africa Ltd.

2000 State of Environment Assessment for Robben Island for Robben Island Museum.

2000 Environmental Impact Assessment of tourism on Marion Island for the Prince Edward Islands Management Committee, Department of Environmental Affairs and Tourism (South Africa).

1999 Integrated Overview of the Offshore Oil and Gas Industry in the Benguela Current Region. Benguela Current Large Marine Ecosystem (BCLME) Thematic Report No. 4 for United Nations Development Programme.

1999 Integrated Overview of Coastal Zone Developments in the Benguela Current Region. Benguela Current Large Marine Ecosystem (BCLME) Thematic Report No. 5 for United Nations Development Programme.

1998 Environmental Management Programme Report for the exploration drilling in Block 17/18, KwaZulu-Natal, South Africa for Phillips Petroleum South Africa Limited.

1998 Environmental Impact Assessment of exploration drilling in Block 17/18 on the KwaZulu-Natal (South Africa) continental shelf for Phillips Petroleum South Africa Limited.

1997 Environmental Management Programme Report for seismic survey in Block 17/18, KwaZulu-Natal, South Africa for Phillips Petroleum South Africa Limited.

1997 Environmental Impact Assessment of seismic survey in Block 17/18, KwaZulu-Natal, South Africa for Phillips Petroleum South Africa Limited.

1996 Environmental Impact Assessment of the FA Satellite Development on the Agulhas Bank for Mossgas.

1995 Environmental audit of Portnet and Strategic Fuel Fund operations and contingency plans: Saldanha for Portnet Saldanha and SFF Association, Saldanha.

1993 Environmental permitting issues pertaining to the proposed Coalex coal terminal, Richards Bay for Soros Associates, Consulting Engineers New York, New York.

1993 Assessment of freshwater requirements of the Berg River Estuary, for the Department of Water Affairs and Forestry.

1993 Environmental (current status) audit of Richards Bay Coal Terminal (RBCT), Richards Bay, South Africa.

PUBLICATIONS

A comprehensive list of publications, book chapters and contract reports is available upon request.



environmental affairs

Department:
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DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

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PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	CSIR		
Contact person:	Patrick Morant		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	pmorant@csir.co.za		
Professional affiliation(s) (if any)			

Project Consultant:	CSIR		
Contact person:	Annick Walsdorff		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	083 390 9009
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	awalsdorff@csir.co.za		

4.2 The specialist appointed in terms of the Regulations_

I, PATRICK DIGBY MORANT, declare that -

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

CSIR

Name of company (if applicable):

18 March 2013

Date:



DR PAUL MARTIN

Name: MARTIN Anthony Paul
Date of Birth: 2 June 1960
Email: pmartin@axxess.co.za

EDUCATION

1971-1978 Caldew Comprehensive School, Dalston, Carlisle, UK
1978-1981 University of Durham: BSc (Hons) Zoology (Class 2:1)
1984-1991 University of Port Elizabeth: PhD Thesis Title - Feeding Ecology of Birds on the Swartkops Estuary, South Africa
External Courses Peace Officer; Environmental Impact Assessment Procedures (2000); Interview Techniques; Project Management; Time Management (2004); Financial Management (2005); First Aid Level 1 (1998, 2001; 2006; 2009); National Certificate Tourism: Guiding (2005); Environmental Management Systems & Auditing (2007)
NMBM Courses Computers: Windows; MS Word; Excel;
Most of the applicable internal courses offered by NMBM Training Division including Management; Industrial Relations; Discipline & Grievance; Safety; Speed Reading; Time Management

EMPLOYMENT HISTORY AND KEY EXPERIENCE

1981-1982 British Antarctic Survey, Cambridge
Zoological Assistant in two man field detachment studying Fur Seals on subantarctic island of South Georgia
1982-1983 British Trust for Ornithology, Tring, Hertfordshire
Assistant in Ringing Office
1983-1988 University of Port Elizabeth
Research Assistant studying estuarine birds and ecology. Participated in several Environmental Impact Assessments
Wrote Management Plan for Swartkops Valley Nature Reserve
1988-2002 Port Elizabeth (now Nelson Mandela Bay) Municipality
Nature Conservation Officer, later Manager: Nature Conservation
Appointed as the city's first conservation officer, responsible for the Swartkops Valley and control of the Swartkops estuary.
In 1992 responsible for setting up and managing the Nature Conservation Division within the Parks & Recreation Department. Responsibilities included managing approx 10,000 ha of natural area, including four local nature reserves, and controlling vegetation on undeveloped Council land. Designed the Port Elizabeth Metropolitan Open Space System. Responsible for setting up 120 km of hiking & bicycle trails in the city.
In 2001 duties were extended into the new metropolitan area, including incorporation of an additional four nature reserves, Sundays estuary control, environmental education unit. Staff complement 98.

Nov 2002 – Jul 2007

Executive Director: Environmental Services, Nelson Mandela Bay Municipality (a 5-year, performance based, contractual senior management position reporting to the Municipal Manager).

Responsible for setting up, leading, managing, reporting on and being accountable for a new Environmental Services Business Unit providing comprehensive Waste Management, Environmental Health, Parks, Environmental Management & Conservation Services to approximately 280 000 households with a population of 1.3 million in an area of 1952 km². Accountable for 1100 staff members, an operating budget of R 250 million and a capital budget of R 36 million.

Unit produced the metro's Environmental Plan, including Spatial Biodiversity Plan (Nelson Mandela Metropolitan Open Space System); Environmental Policy and Environmental Management System Framework (2004); Integrated Waste Management Plan (2005) and was developing the State of Environment Report, Alien Organism Control Plan, Air Quality Management Plan, Coastal Management Plan and site specific Environmental Management Programmes.

Acted as Municipal Manager on numerous occasions.

Aug 2007 – Present

Environmental Control Officer for the Coega Industrial Development Zone and Port of Ngqura. Responsible for auditing and monitoring adherence to Environmental Management Systems and Records of Decision and reporting to an independent multi-stakeholder Environmental Monitoring Committee.

Environmental Specialist Consultant (Tourism Sector Plans) in association with Kyle Business Projects:

Strategic Environmental Assessments (SEA) for Responsible Tourism Sector Plans in Kou-Kamma, Kouga, Camdeboo, Ikwezi, Blue Crane Route, Sundays River Valley, Makana and Ndlambe Local Municipalities (2008), Knysna and King Sabata Dalinyebo Local Municipalities (2009). SEA for the Tourism Master Plans for Cacadu and Chris Hani District Municipalities (2009),

Environmental Assessments (Tourism Plans) for Amathole (2009) & Mopani (2010) District Municipalities (Agri-Tourism Projects); Nelson Mandela Metro (Tourism Plan); Cradock Tourism Project (2009); Maqoma Eco-Tourism (2011). Assessment of Nature Reserves in Cacadu District Municipality (2010)

Environmental Impact Assessments: Fauna and Avifauna Specialist Assessment for the proposed Coega Ridge Development near Motherwell. Three Avifauna Specialist Assessments for power lines and one wind farm in the Nelson Mandela Bay Municipality (2008-09, 2011).

Avifauna Monitoring: Waterbird & Breeding Bird counts on wetlands around Port Elizabeth (1983 – present); Wind Farm Projects: Electrawinds, Universal Wind, Coega IDZ; Nelson Mandela Metro van Stadens wind (2011)

Other

Author of several scientific papers and numerous popular articles.

Editor of The Bee-eater, journal of Birdlife Eastern Cape 1992-2003.

Presenter of talks, lectures and courses on ecology and the natural environment of the Port Elizabeth region.
Registered Specialist Natural History Tour Guide & Tour Operator

Member of: Birdlife SA; Botanical Society of SA; Wildlife & Environment Society of SA; Mountain Club of SA; Swartkops Conservancy; Algoa Bay Yacht Club (Coastal Skipper)

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS



JOHN E. ALMOND Ph.D. (Cantab)

Natura Viva cc, PO Box 12410 Mill Street, CAPE TOWN 8010, RSA
tel: (021) 462 3622 e-mail: naturaviva@universe.co.za

- **Honours Degree in Natural Sciences (Zoology)**, University of Cambridge, UK (1980).
- **PhD in Earth Sciences (Palaeontology)**, University of Cambridge, UK (1986).
- **Post-doctoral Research Fellowships** at University of Cambridge, UK and Tübingen University, Germany (Humboldt Research Fellow).
- **Visiting Scientist** at various research institutions in Europe, North America, South Africa and fieldwork experience in all these areas, as well as in North Africa.
- **Scientific Officer, Council for Geoscience, RSA (1990-1998)** – palaeontological research and fieldwork – especially in western RSA and Namibia.
- **Managing Member, *Natura Viva* cc** – a Cape Town-based company specialising in broad-based natural history education, tourism and research – especially in the Arid West of Southern Africa (2000 onwards). *Natura Viva* cc produces **technical reports** on palaeontology, geology, botany and other aspects of natural history for public and private nature reserves.
- **Current palaeontological research** focuses on fossil record of the Precambrian / Cambrian boundary (especially trace fossils), and the Cape Supergroup of South Africa. Also **reviews of fossil records** relating to new 1: 250 000 geological maps published by the Council for Geoscience (Geological Survey of SA) – e.g. Clanwilliam, Loeriesfontein, Alexander Bay sheets.
- **Registered Field Guide for South Africa and Namibia**
- **Member of the A-team, Botanical Society of SA (Kirstenbosch Branch)** – involved in teaching and training leaders for botanical excursions. Invited leader of annual Botanical Society excursions (Kirstenbosch Branch) to Little Karoo, Cederberg, Namaqualand and other areas since 2005.
- **Professional training of Western and Eastern Cape Field Guides** (FGASA Level 1 & 2, in conjunction with *The Gloriosa Nature Company*) and of Tourist Guides in various aspects of natural history.
- Involved in **extra-mural teaching in natural history** since the early 1980s. Extensive experience in **public lecturing**, running **intensive courses** and leading **field excursions for professional academics as well as enthusiastic amateurs** (e.g. Geological Society / Archaeological Society / Friends of the SA Museum / Cape Natural History Club / Mineral Club / Botanical Society of South Africa / SA Museum Summer & Winter School Programmes / UCT Summer School)
- **Development of palaeontological teaching materials** (textbooks, teachers guides, palaeontological displays) and **teacher training** for the new school science curriculum (GET, FET).
- **Palaeontological impact assessments** for developments in the Western, Eastern and Northern Cape. Member of **Archaeology, Palaeontology and Meteorites Committee for Heritage Western Cape (HWC)**. Advisor on palaeontological conservation and management issues for the Palaeontological Society of South Africa (PSSA), HWC and SAHRA (APM Permit Committees for both organisations). Compilation of **technical reports on provincial palaeontological heritage of Western, Northern and Eastern Cape** for SAHRA and HWC. Accredited member of PSSA and APHAP (Association of Professional Heritage Assessment Practitioners).



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Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number:	(For official use only)
NEAS Reference Number:	12/12/20/
Date Received:	DEAT/EIA/

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	Dr John E. Almond		
Contact person:	As above		
Postal address:	PO Box 12410 Mill Street, CAPE TOWN		
Postal code:	8010	Cell:	n/a
Telephone:	021-462 3622	Fax:	n/a
E-mail:	almond@universe.co.za		
Professional affiliation(s) (if any)	Palaeontological Society of Southern Africa, Association of Professional Heritage Practitioners (Western Cape)		

Project Consultant:	CSIR		
Contact person:	Annick Walsdorff		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	083 390 9009
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	awalsdorff@csir.co.za		

4.2 The specialist appointed in terms of the Regulations_

I, Dr John E. Almond declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

John E. Almond

Name of company (if applicable):

Natura Viva cc

Date:

18 March 2013



CURRICULUM VITAE – JOHAN BINNEMAN

NAME: Johannes Nicolaas Francois Binneman
DATE OF BIRTH: 31 October 1953
NATIONALITY: South African

QUALIFICATIONS:

M.A. - Archaeology from the University of Stellenbosch (1982)
D.Phil - Archaeology from the University of the Witwatersrand (1996).

RESEARCH EXPERIENCE: 27 Years of archaeological research in the Eastern Cape. This includes the fields of Middle Stone Age, Later Stone Age, Iron Age, Rock Art and Historical Archaeology.

PUBLICATIONS: Include some 50 academic and popular articles.

OTHER: Co editor of the Southern African Field Archaeology (accredited)
Member of Kwa-Zulu Natal Heritage Permit Committee

MEMBER OF: Association of South African Professional Archaeologists
South African Society for Archaeologists
Society for Africanist Archaeologists

CONSULTANCY EXPERIENCE: 25 Years

CONSULTANT PROJECTS - CLIENTS INCLUDE:

- Cape Provincial Administration (pre 1994),
- Atomic Energy Board,
- South African National Roads Agency,
- Pretoria Portland Cement,
- Blue Circle Cement,
- Eastern Cape Nature Conservation (pre April 2004),
- Department of Water Affairs,
- Department of Environmental Affairs,
- National Parks Board (now SANparks),
- Wildemess Foundation,
- Gencor,
- Portnet,
- ESKOM,
- Coega IDZ,
- Many other small companies and land developers.



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Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

+		(For official use only)
File Reference Number:	12/12/20/	
NEAS Reference Number:	DEAT/EIA/	
Date Received:		

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	Dr Johan Binneman		
Contact person:	Dr Johan Binneman (JB) or Mr Kobus Reichert (KR)		
Postal address:	Eastern Cape Heritage Consultants P.O. Box 689, Jeffreys Bay		
Postal code:	6330	Cell:	0722411528 (JB) 0728006322 (KR)
Telephone:	042 2960 399	Fax:	042 2960399
E-mail:	jnbinneman@gmail.com kobusreichert@yahoo.com		
Professional affiliation(s) (if any)	Member of the Association of Southern African Professional Archaeologists (ASAPA)		

Project Consultant:	CSIR		
Contact person:	Annick Walsdorff		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	083 390 9009
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	awalsdorff@csir.co.za		

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

4.2 The specialist appointed in terms of the Regulations_

J.N.F.BINNEMAN declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

Name of company (if applicable):

Eastern Cape Heritage Consultants cc

Date: 19 March 2013



CURRICULUM VITAE: Philip de Souza

Firm	Emanti Management (Pty) Ltd
Profession	Water Utilisation Engineer
Specialization	Water Treatment and Quality Management
Position in Firm	Director
Nationality	South African
Language Proficiency	English, Afrikaans

PROFILE

Philip's career in the Water Industry entailed the development and implementation of an electronic drinking water quality management system as well as water treatment process engineering (desktop studies and fieldwork), especially stabilization and corrosion/aggression mitigation, municipal water quality management, liquid waste management, wastewater recovery and reuse and the implementation of ISO14001/environmental management systems and data analysis.

KEY CAPABILITIES

- Water treatment process engineering (desktop studies, fieldwork and unit processes optimisation).
- Drinking water stabilization and corrosion/aggression mitigation
- Municipal water quality management
- Assessor/Auditor for Blue/Green Drop Certification of Water Services Authorities throughout South Africa (on behalf of DWA) Specification of web-based database systems and associated requirements for drinking-water, wastewater and resource water.
- Management of the development and implementation of web-based database systems for drinking-water, wastewater and resource water.
- Management of the operation and maintenance of web-based database systems for drinking-water, wastewater and resource water.
- Management of the integration of web-based database systems with other database systems (e.g. Laboratory Information Management Systems, National database).
- Liquid waste management, wastewater recovery and reuse
- Lead auditor for ISO14001/environmental management systems
- Project and financial management skills
- Well-developed writing and verbal communication skills (proposal/report generation, project execution, client liaison, project presentation, team motivation, etc)

EDUCATION AND PROFESSIONAL STATUS

Water Utilisation Engineering (Hons), University of Pretoria	2002
BSc Chemical Engineering, University of Cape Town	1998

MEMBERSHIPS

- Engineering Council of South Africa (ECSA)
- South African Institute of Chemical Engineers (SAICH[®])
- Water Institute of Southern Africa (WISA)
- International Water Association (IWA)

CURRICULUM VITAE: Philip de Souza

HONOURS AND AWARDS

- National Science and Technology Award, Winner SMME category, RDI of eWQMS 2008
- IMESA, Project Excellence Award, Drinking Water Quality System 2008
- International Water Association (IWA), Global and Europe Project Innovation Award(s); for excellence in Water Engineering: DWAF, IMESA and Emanti Management 2008
- National Science and Technology Award, SMME Runner-up, RDI of eWQMS 2007
- CSIR Environmentek Mentoree Award 2003
- Honours in Water Utilisation Engineering awarded with distinction (Top of Class) 2002
- BSc Chemical Engineering degree awarded with Honours 1998
- EPPIC Highly Commended Award for Chemical Engineering Project (Fuel Cell Technology for a Public Transport System in Cape Town) 1998
- Isaac Ochberg Entrance Scholarship 1995-1998
- University of Cape Town Entrance Merit Scholarship 1995-1997

EMPLOYMENT AND EXPERIENCE RECORD

Emanti Management (Pty) Ltd 2003-present
Director

Water Utilisation Engineer (Water Treatment and quality management)

Project Experience:

- Electronic Drinking Water Quality Management System development, testing, implementation, training, roll-out, on-going maintenance, support, linkage to other database systems, etc.
- Assessor/Auditor for Blue/Green Drop Certification of Water Services Authorities throughout South Africa (on behalf of DWA) Design, Operation, Assessment of Water Treatment Technologies
- Integrated water management and liquid waste-water specialist studies for Environmental Impact Assessments
- ISO14001/environmental management systems
- Soft Water Treatment – Iron/manganese removal, stabilization and corrosion mitigation
- Municipal Water Quality/Treatment Review, Upgrade and Optimization
- Community Capacity Development – Water Quality and Treatment
- Comparative Financial Analysis and Cost Benefit Analysis
- Wastewater treatment, recovery and reuse

CSIR, Division of Water, Environment and Forestry Technology 1999 – 2003
Projects Engineer

PUBLICATIONS

Philip de Souza has published numerous investigative and other reports, 17 papers at various conferences, symposia and in scientific journals and presented numerous lectures over the last 10 years.



APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

CURRICULUM VITAE: Phillip de Souza

KEY AND RELATED PROJECT EXPERIENCE

Conduct an audit on the Exxaro Kalbasfontein Mine and report on compliance with the conditions of the Licence in Terms of Chapter 4 of the National Water Act, 1998 (Act No 36 of 1998)	2011
Compile a Water Safety Plan for the Water Purification Plants (Hartswater, Jan Kempdorp, Pampierstad, Ganspan and Mogogong) in line with the Blue Drop Certification as required by DWA	2011
Development of a Water Safety Plan and related Blue Drop support, development of a Wastewater Risk Abatement Plan and associated Green Drop support, and a Section 78 Investigation for Hantam Municipality	2011
Stellenbosch Drinking-Water Quality Management Programme: Overseeing monthly Consultative Audit of drinking-water quality within Stellenbosch Municipality (South Africa), use of water quality results to optimise water treatment plant operation, providing necessary drinking-water quality awareness training and support and assisting resolution of any drinking-water quality issues.	2001-current
Development of a Drinking Water Quality Management System (eWQMS) for Water Services Authorities in the Northern Cape: Specification, development, testing and implementation of the eWQMS for use by Water Services Authorities. This includes on-going system review, stakeholder interaction, development, operation and maintenance of the eWQMS to meet water sector needs.	2006 – 2008
National Surveys of Drinking Water Quality, Water Service Quality and Wastewater Survey: Collating, checking and verifying all data from the above study and compiling business intelligence related reports highlighting current key weaknesses and challenges within the water sector in South Africa. One-on-one interaction with Water Services Authorities in the Northern Cape and Western Cape and the population of the National Survey which includes information around drinking water quality, water service quality and wastewater.	Annual survey: 2006-2011
Development of an Implementation Plan for the Adopt-A-River Programme: Development of an implementation plan for monitoring programmes and appropriate active and passive communication structures between multiple stakeholders within the water sector (municipality, regulator, other government departments, research bodies, civil society, public, etc) via information sharing, databases, websites, etc.	2008 - 2009
Stellenbosch Rivers Water Quality Management Programme: Monthly monitoring of river water quality at strategic rivers within Stellenbosch Municipality, providing necessary water quality awareness training and support and assisting resolution of any water quality issues.	2005-current
Supporting Drinking-Water Quality Management at Water Services Authorities (WSAs) in South Africa via Roll-Out of a Water Quality Management Tool: Improving drinking-water quality monitoring and management awareness in WSAs and training and supporting WSAs and the water sector in the use of the eWQMS.	2006-current

CURRICULUM VITAE: Phillip de Souza

Development of Water Research Commission Water Supply System Assessment Tool (SSAT): Development of the SSAT on the eWQMS thus allowing both Water Services Authorities and other water sector parties to assess the status of their water supply system infrastructure and identify associated risks.	2005-2009
Development of Water Research Commission Wastewater Pond Treatment System Tool: Development of the Wastewater Pond Treatment System Tool on the eWQMS thus allowing both Water Services Authorities and other water sector parties to assess the status of their Wastewater Pond systems and identify associated environmental and health risks.	2006-2009
Development of Water Research Commission Management Information Tool (MIT): Development of a simple spreadsheet based Water Treatment Works Operational Tool which can be used by Water Services Authority Management to effectively operate, maintain and manage all aspects of a Water Treatment Facility. Once finalised, the tool will be web-enabled via the eWQMS.	2007-Current
Specialist Input into Water Use and Integrated Water Management for the Technology Review for the proposed aluminium smelter at Coega, South Africa.	2005
Specialist Input into Water Use and Integrated Water Management for the Environmental Screening Study for a gas power station, South Africa	2003
Specialist Input into Water Use and Integrated Water Management for the Environmental Impact Assessment for the proposed Coega Aluminium Smelter, South Africa	2003



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Department:
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REPUBLIC OF SOUTH AFRICA

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number:	(For official use only)
NEAS Reference Number:	12/12/20/
Date Received:	DEAT/EIA/

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	Emanti Management		
Contact person:	Philip de Souza		
Postal address:	PO Box 1264 Stellenbosch		
Postal code:	7599	Cell:	083 235 4900
Telephone:	021 880 2932	Fax:	086 571 0609
E-mail:	philipds@emanti.co.za		
Professional affiliation(s) (if any)	ECSA, SAICHe, IWA, WISA		

Project Consultant:	CSIR		
Contact person:	Annick Walsdorff		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	083 390 9009
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	awalsdorff@csir.co.za		

4.2 The specialist appointed in terms of the Regulations_

I, Philip Faria de Souza, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

Emanti Management
Name of company (if applicable):

15 March 2012

Date:

CURRICULUM VITAE - JULIAN CONRAD

GENERAL

Nationality: South African
Profession: Geohydrologist
Specialisation: Groundwater exploration, development, management and monitoring and the application of spatial technologies for geohydrological assessment and management purposes
Position in firm: Director: Geohydrological and Spatial Solutions International (Pty) Ltd
Year of birth & ID #: 1962 - 620611 5058 080
Language skills: English (mother tongue), Afrikaans (fair)

KEY SKILLS

- Groundwater management and monitoring – database design, development and analysis of groundwater level and quality data.
- Groundwater development - borehole drilling and test pumping supervision and analysis.
- Groundwater exploration - (aerial photo interpretation, resistivity, magnetic and EM34 geophysical surveys for borehole siting purposes)
- A fair knowledge of Geographical Information Systems (GIS) for hydrogeological application.
- Project leadership and management for the delivery of contract projects on brief, budget and time.

EDUCATIONAL AND PROFESSIONAL STATUS

Qualifications

1995	M.Sc. (Hydrogeology and GIS)	University of Rhode Island, United States of America
1985	B.Sc. (Hon) (Engineering geology)	University of Natal, Durban, South Africa
1984	B.Sc. (Geology)	University of Natal, Durban, South Africa

Courses

2011	Estimating groundwater recharge
2010	Introduction to QGIS (GISSA)
2010	Skills Presentation (Elsabé Daneel Productions cc)
2006	South African Groundwater Decision Tool (SAGDT)
2004	Fractured Rock Aquifer Assessment
2001	Isotope Techniques in Catchment Management
2000	Groundwater Recharge
1999	Remote Sensing and Geohydrology
1999	Applied 3D Groundwater Modelling using Visual MODFLOW
1997	Avenue Programming
1995	ArcView (GIMS)
1991	Advanced training on Arc/Info (DWA&F)
1990	Pump test analysis (IGS-UOFS)

Memberships

- International Association of Hydrogeologists (IAH)
- Geological Society of South Africa (GSSA)
- Groundwater Division of the Geological Society of South Africa
- Fellow of the Water Institute of South Africa (WISA)
- Geo-Information Society of South Africa (GISSA)
- South African Council for Natural Scientific Professions (SACNASP) Membership No. 400159/05

EMPLOYMENT RECORD

- 1 Mar 2001 – present: Founded GEOSS – a company specializing in geohydrology.
- 1 May 1990 – 28 Feb 2001 Hydrogeologist with Environmentek, Groundwater Group, CSIR.
- Jan 1989 – Apr 1990 Travelled through Africa, Middle East, Europe, South & North America
- Jan 1986 – Dec 1988 Geotechnical geologist with Rössing Uranium Limited, Namibia.

PUBLICATIONS (DETAILS ON REQUEST)

- Co-author of a book on Contamination Inventory Mapping – UNESCO – IHPV – 3.1
- Co-author of 1 paper published in an international journal
- Author / Co-author of 28 conference papers



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Department:
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REPUBLIC OF SOUTH AFRICA

APPENDIX A - EIA TEAM & SPECIALISTS DECLARATIONS

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

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File Reference Number:	12/12/20/
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Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Environmental Impact Assessment (EIA) for the proposed Manganese Export Terminal and Associated Infrastructure at the Port of Ngqura, Port Elizabeth

Specialist:	Geohydrologist		
Contact person:	Julian Conrad		
Postal address:	P.O. Box 12412 Die Boord		
Postal code:	7600	Cell:	082 871 5772
Telephone:	021 880 1079	Fax:	021 880 1164
E-mail:	jconrad@geoss.co.za		
Professional affiliation(s) (if any)	IAH, GWD, WISA, GISSA		

Project Consultant:	CSIR		
Contact person:	Annick Walsdorff		
Postal address:	P O Box 320, Stellenbosch		
Postal code:	7599	Cell:	083 390 9009
Telephone:	021 888 2661	Fax:	021 888 2693
E-mail:	awalsdorff@csir.co.za		

4.2 The specialist appointed in terms of the Regulations_
I, Julian Conrad, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

GEOSS

Name of company (if applicable):

14 March 2012

Date:



Curriculum Vitae – Brett Williams

Name of organisation: Safetech
Profession: Occupational Hygienist
Position in Firm: Owner
Date of Birth: 21/04/1963
Years with Firm: 20

BIOGRAPHICAL SKETCH

Brett Williams has been involved in Health Safety and Environmental Management since 1987, and has been measuring noise related impacts since 1996. Brett is the owner of Safetech who have offices in Pretoria and Port Elizabeth. He has consulted too many different industries including, mining, chemical, automotive, food production etc. He is registered with the Department of Labour and Chamber of Mines to measure environmental stressors, which include chemical monitoring, noise and other physical stresses. .

KEY EXPERIENCE

- Crown Chickens – The independent report review of a noise specialist report conducted as part of an EIA to establish a new broiler farm
- BMW – The evaluation of the impact of the Rosslyn production facilities on the surrounding community.
- Victory Race Track - Specialist noise report conducted as part of an EIA to establish a new stock car racing track.
- Continental Tyre - The evaluation of the impact of production facilities on the surrounding community.
- Media 24 – The measurement portion of an investigation on the impact of a printing press on a local community. The main study was conducted by the University of Stellenbosch.
- Zwartebosh Quarry - Specialist noise report conducted as part of an EIA to establish a new quarry.
- Milo Granite - Specialist noise report conducted as part of an EIA to establish a new quarry.
- Dunlop Tyres - The evaluation of the impact of production facilities on the surrounding community.
- Sasol Secunda - Independent report review of a noise specialist report conducted to determine the impact of production facilities on the surrounding community.
- Barlow World Coatings - The evaluation of the impact of production facilities on the surrounding community.
- Western Platinum Refinery - The evaluation of the impact of production facilities on the surrounding community.

- CSIR – Noise Impact Study of Namwater Desalination Plant and Kouga Wind Turbine Project and the Namport Walvis Bay Port Container Terminal extension
- CES - Innowind Wind Energy Turbine Project, Grahamstown.
- CSIR - Noise Impact Study of Cookhouse and Overberg Wind Turbine Projects
- BKS –Department of Defence Noise Study (Classified)

CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe my qualifications, my experience, and me.

Brett Williams

