

## **Appendix E**

### **ADDITIONAL INFORMATION**

## **Appendix E1**

### **EAP DECLARATION AND EXPERTISE**



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA


### DETAILS OF EAP AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/12/20/ or 12/9/11/L
NEAS Reference Number:	DEA/EIA
Date Received:	

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, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

### PROJECT TITLE

Working For Wetlands Programme: Kwazulu-Natal

Environmental Assessment Practitioner (EAP):	Aurecon South Africa Pty (Ltd)		
Contact person:	Franci Gresse		
Postal address:	PO Box 494		
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Telephone:	021 526 6022	Fax:	021 526 9500
E-mail:	Franci.Gresse@aurecongroup.com		
Professional affiliation(s) (if any)	Ms Gresse served on the committee of the South African affiliate of the International Association for Impact Assessment (IAIASa) for the Western Cape Branch from 2009 to 2011, and remains a member.		

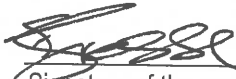
Project Consultant:	As Above		
Contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

#### 4.2 The Environmental Assessment Practitioner

I, **Franci Gresse**, 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 48 and is punishable in terms of section 24F of the Act.



Signature of the environmental assessment practitioner:

**Aurecon South Africa (Pty) Ltd**

Name of company:

**09 November 2017**

Date:





## Franci Gresse

Franci is a senior environmental practitioner in Aurecon's Cape Town office. She has been involved in various environmental investigations, including environmental impact assessments (EIA's), environmental management plans (EMP's), environmental management programmes (EMP's), rehabilitation plans maintenance management plans (MMP's) and fatal flaw analysis.

Franci has been involved with the Working for Wetlands rehabilitation programme for the past five years, of which she has been acting as the Team Leader for the environmental assessment practitioners (EAP's) for the last three years. The Working for Wetlands project won the 2012 Aurecon Chairman's Award for its positive contribution to the natural and social environment. In addition, Franci has also been involved with a number of projects in the renewable energy sector.

Franci served on the committee of the South African affiliate of the International Association for Impact Assessment (IAIA) for the Western Cape Branch from 2009 to 2011, and remains a member. She completed a Bachelor of Science and an Honours Degree in Conservation Ecology at the University of Stellenbosch (South Africa).

### Qualifications

BSc (Hons) Conservation Ecology

Member, International Association of Impact Assessment (IAIA)

### Specialisation

Environmental Impact Assessment Practitioner

### Years in industry

8.08

## Experience

### **Working for Wetlands plan 2016 - 2018, Regional South Africa, Department of Environmental Affairs: Natural Resource Management Directorate, 06/2016 - Date, Project Leader**

The Natural Resource Management Directorate of the Department of Environmental Affairs appointed Aurecon to provide environmental and engineering services for the Working for Wetlands Programme which is a national wetland rehabilitation programme. Responsibilities include the management and coordination of the overall project, management of the environmental authorisation component of the project, as well as the compilation of basic assessment reports (BAR) for the country. Other responsibilities include the compilation of wetland rehabilitation plans for the Western Cape, Northern Cape and Limpopo Provinces, liaison with authorities and the public (public participation process) and management of wetland specialists.

### **Integrated Environmental Impact Assessment (EIA) for the proposed extension of the Ash Dam facility at Kriel power station, Mpumalanga Province, South Africa, Eskom Holdings, 06/2016 - date, Project Leader**

Appointed by Eskom to conduct an integrated environmental impact assessment (EIA) for the proposed construction of a fourth ash dam facility at the Kriel power station. Responsible for the general project management and finances, authority liaison and the compilation and review of the EIA documentation.

### **Amended Environmental and Socio-Economic Impact Assessment for a concentrated solar plant facility near Arandis in the Erongo Region, 02/2016 – 10/2016, Project Leader**

Aurecon was appointed by the NamPower to amend the Environmental Clearance Certificate (ECC) issued for the Erongo Coal-fired Power Station at Arandis, to a Concentrated Solar Plant. Responsibilities included project management (programme, finances and client expectations), liaison with authorities and relevant stakeholders, review of specialist reports and the compilation and review of the Amendment Report.



## Franci Gresse Senior Environmental Impact Assessment Practitioner

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### **Table Mountain Group (TMG) Aquifer feasibility study and pilot project, Western Cape Province, South Africa, City of Cape Town, 2015 - date, Environmental Consultant**

The TMG Aquifer Feasibility Study and Pilot Project was initiated in 2002 and is a long term planning initiative to investigate the groundwater potential of the TMG Aquifer as a water source to augment Cape Town's water supply. Given the recommendations in the Exploratory Phase report, and the fact that the TMG Aquifer has since been utilised as a water resource in areas such as Hermanus and Oudtshoorn, the City of Cape Town decided to omit the Pilot Phase and rather proceed with an extended Exploratory Phase, which would include limited pump testing. Aurecon was appointed to undertake the extended Exploratory Phase work. Responsibilities include the compilation of Environmental Management Plans for the additional test sites, liaison with the relevant authorities and landowners and management of the Environmental Control Officers on the project.

### **Implementation of the Hoekplaas environmental authorisation (EA), Northern Cape Province, South Africa, Mulilo Renewable Energy, 11/2013 - 05/2015, Project Leader**

Aurecon assisted the holder of the environmental authorisation (EA) for the 100 MW photovoltaic (PV) facility in De Aar with the implementation of the environmental conditions to ensure compliance to all relevant environmental legislation. Responsible for the management of tasks and review of all documentation. Also assisting client with questions on the environmental impact assessment (EIA) process.

### **Environmental impact assessment and compilation of an environmental management plan (EMP) for the Swakopmund-Mile 7 Water Supply, Phase 2, Swakopmund, Namibia, NamWater, 11/2013 - 10/2015, Project Leader**

NamWater appointed Aurecon to assist with the environmental impact assessment process for the proposed construction of a new bulk water pipeline between Swakopmund and Mile 7. Responsible for the management and review of the environmental impact assessment (EIA) reports and processes, as well as the project's finances.

### **Working for Wetlands plan 2014 - 2016, Regional South Africa, South African National Biodiversity Institute (SANBI), 06/2013 – 05/2016, Task Leader**

The South African National Biodiversity Institute (SANBI) appointed Aurecon to provide environmental and engineering services for the Working for Wetlands Programme which is a national wetland rehabilitation programme. Responsible for the management of the environmental authorisation component of the project, as well as the compilation of basic assessment reports (BAR) for the country. Other responsibilities include the compilation of wetland rehabilitation plans for the Western Cape, Northern Cape, North West and Limpopo Provinces, liaison with authorities and the public (public participation process) and management of wetland specialists.





## Franci Gresse Senior Environmental Impact Assessment Practitioner

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### **Maintenance management plans (MMP's) for flood damaged road infrastructure, Western Cape Province, South Africa, Western Cape Provincial Government Department of Transport and Public Works, 06/2013 - Date, Project Staff**

The project entails the compilation of maintenance management plans (MMP's) for two local municipal areas (Laingsburg and Worcester), as well as obtaining the necessary permits/ water use authorisations. Personally involved during the project commencement with regards to strategy development, meetings with the relevant authorities and assistance with the development of the MMP's.

### **Environmental impact assessment (EIA) for the expansion of approved solar energy facilities located near Prieska and De Aar, Northern Cape Province, South Africa, Mulilo Renewable Energy, 03/2013 - 09/2015, Phase Leader**

Mulilo Renewable Energy decided to expand the approved solar energy facilities on the farms Hoekplaas and Klipgats in Prieska, as well as on the farms Badenhorst Dam and Du Plessis Dam in De Aar. The expansion of Hoekplaas farm in Prieska includes ten additional 75 MW photovoltaic (PV) facilities and six additional PV units at Klipgats Pan farm. The expansion at Badenhorst Dam farm includes four additional 75 MW PV facilities and three additional PV units at Du Plessis Dam farm. Responsible for the management and review of the environmental impact assessment (EIA) reports and processes, as well as the project's finances.

### **Fatal flaw study for two potential Wind Energy Facility (WEF) sites, Northern and Western Cape Provinces, South Africa, Juwi Renewable Energies (Pty) Ltd, 03/2013 - 04/2013, Environmental Practitioner**

The study entailed a fatal flaw analysis of two potential wind energy facility (WEF) sites in the Northern and Western Cape Provinces. Responsible for the assessment of the sites and compilation of the fatal flaw report.

### **Richtersveld wind energy facility (WEF), Northern Cape Province, South Africa, TRE Tozzi Renewable Energy S.p.A and Guma Group, 07/2012 - 09/2013, Environmental Practitioner**

The project entailed a due diligence of the proposed wind energy facility (WEF) to review compliance with the requirements of the Department of Energy's independent power producer (IPP) process. Responsible for the review of the environmental reports and compilation of the due diligence report.

### **Three photovoltaic (PV) energy facilities near Copperton, Northern Cape Province, South Africa, Mulilo Renewable Energy (MRE), 09/2011 - 05/2015, Environmental Practitioner**

The project entailed three environmental impact assessments (EIA's) for three photovoltaic (PV) energy facilities comprising 75 MW to 150 MW, located near Copperton. Responsible for the management the EIA process and project specialists, compilation of scoping and EIA reports and liaison with authorities.

### **Fatal flaw study for four potential wind energy facility (WEF) sites, Northern and Western Cape Provinces, South Africa, Mainstream Renewable Power South Africa, 11/2011 - 05/2012, Environmental Practitioner**

The study entailed a fatal flaw analysis of four potential wind energy facility (WEF) sites across the Northern and Western Cape Provinces. Responsible for the management of specialists, review of reports, assessment of the sites and compilation of the fatal flaw report.



## **Franci Gresse Senior Environmental Impact Assessment Practitioner**

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### **Implementation of the Klipgats Pan environmental authorisation (EA), Northern Cape Province, South Africa, Mulilo Renewable Energy, 09/2011 - 05/2015, Project Leader**

Aurecon was appointed to undertake three environmental impact assessments (EIA's) for three proposed photovoltaic (PV) solar energy plants near Copperton. The first PV solar energy plant will generate around 100 MW (preferred alternative) or 150 MW (alternative) on the Hoekplaas Farm (Farm 146/RE). The proposed PV plant will cover approximately 300 ha (preferred alternative) or 450 ha (alternative). The second includes a PV solar energy plant to generate roughly 100 MW on the farm Klipgats Pan (Farm 117/4) near Copperton in the Northern Cape. The proposed PV plant will cover an estimated 300 ha. An alternative site for a 100 MW PV plant with a 300 ha footprint is also being considered. The third comprises a PV solar energy plant to generate about 100 MW (preferred alternative) or 300 MW (alternative) on the farm Struisbult (Farm 104, portion 1) which will cover 300 ha to 900 ha. Responsible for managing tasks and reviewing all documentation for updating the environmental management plan (EMP) and implementing the environmental authorisation (EA). Also assisted client with questions on the EIA process.

### **Proposed rehabilitation of Wetlands as part of the Working for Wetlands, Regional, South Africa, South African National Biodiversity Institute (SANBI), 08/2011 - 09/2013, Environmental Practitioner**

Appointed by the South African National Biodiversity Institute (SANBI) to conduct environmental impact assessments (EIA's) for the rehabilitation of specific wetlands in all provinces of South Africa over a five year period. Responsible for the compilation of basic assessment reports (BAR) and Wetland Rehabilitation Plans for the Western Cape, Northern Cape, Gauteng and Limpopo Provinces. Other responsibilities included liaison with authorities, public participation process, management of specialists and general project management of the environmental component of the project.

### **Repair of flood damage to road structures in the Eden District Municipality, Western Cape Province, South Africa, Western Cape Provincial Department of Transport and Public Works, 01/2011 - Date, Environmental Practitioner**

The project entails the compilation of maintenance management plans (MMP) for seven areas within the Eden District Management Area to repair. Responsible for compilation of MMP's, review of reports and liaison with stakeholders and authorities.

### **Environmental impact assessment (EIA) for the proposed extension of the Ash Dam facility at Kriel power station, Mpumalanga Province, South Africa, Eskom Holdings, 11/2009 - 12/2015, Environmental Practitioner**

Appointed by Eskom to conduct an environmental impact assessment (EIA) for the proposed construction of a fourth ash dam facility at the Kriel power station. Responsible for the general project management and finances, screening process, compilation of the scoping and EIA reports, public participation and the compilation of a waste management licence application.



## Franci Gresse Senior Environmental Impact Assessment Practitioner

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### **Environmental impact assessment (EIA) for proposed relocation of solar energy facility, Onder Rietvlei Farm, Aurora, Western Cape Province, South Africa, Solaire Direct Southern Africa, 2010 - 2011, Project Leader**

Appointed by Solaire Direct to undertake a basic environmental impact assessment (EIA) process for the proposed relocation of an approved, but not yet constructed 10 MW solar energy facility. Responsible for the management and review of the EIA process and finances.

### **Environmental impact assessment (EIA) for proposed solar energy facility, Onder Rietvlei Farm, Western Cape Province, South Africa, Solaire Direct Southern Africa, 07/2010 - 02/2012, Environmental Practitioner**

Appointed by Solaire Direct to undertake a basic environmental impact assessment process for the proposed construction of a 10 MW solar energy facility. Responsible for the compilation of the draft and final reports, public participation process, management of specialists and general project management.

### **Proposed Paarl Mountain and Ysterbrug pumping main upgrades, Western Cape Province, South Africa, Drakenstein Municipality, 06/2010 – 12/2015, Environmental Advisor**

The Drakenstein Municipality appointed Aurecon's engineers to investigate and plan the proposed upgrade of the Paarl Mountain and Ysterbrug Pumping Scheme. The upgrading of the pipelines feeding the Meulwater Water Treatment Works from the Bethel and Nantes dams, also part of this scheme, was also investigated. Responsible for providing advice on environmental processes required. Other responsibilities included the management of the independent environmental assessment practitioner and the review of all environmental impact assessment (EIA) documentation.

### **Environmental sensitivity study (ESS) for a proposed solar energy facility on a farm Near Aurora, Western Cape Province, South Africa, Solaire Direct Southern Africa, 2010, Environmental Practitioner**

Appointed to provide an environmental sensitivity study (ESS) which inter alia highlights the potential constraints ('red flags') and opportunities presented by the site from an environmental perspective. Responsible for the compilation of the ESS.

### **Proposed remediation, rehabilitation and restoration of the Spruit, Krom, Leeu and Palmiet Rivers, Western Cape Province, South Africa, Drakenstein Municipality, 2009 - 2010, Environmental Practitioner**

Appointed by the Drakenstein Municipality to undertake the requisite environmental impact assessment (EIA) process for the rehabilitation, remediation and stabilisation of four rivers in Paarl and Wellington. Responsible for the EIA and public participation processes.

### **Proposed construction of a new pipeline from Bovlei Winer to Withoogte Dam, Wellington, Western Cape Province, South Africa, Drakenstein Municipality, 2009 - 2010, Environmental Practitioner**

The Drakenstein Municipality proposed to replace a section of the existing pipeline extending from the Withoogte Dam to the Welvanpas Reservoir near Wellington as part of the municipality's water master plan in order to improve the overall water supply. Responsible for the compilation of the environmental impact assessment (EIA) report, management of specialists and the public participation process.



## **Franci Gresse Senior Environmental Impact Assessment Practitioner**

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### **Proposed erection of Eskom communication sirens and public announcement (PA) systems, Blaauwberg, Western Cape Province, South Africa, Eskom, 2009 - 2010, Environmental Practitioner**

The project entailed three environmental impact assessment (EIA) processes for the (a) erection of 10 new sirens in the Parklands area, (b) the relocation of one siren in Bloubergstrand, and (c) the upgrade of five sirens on farms near Melkbosstrand. Responsible for compiling environmental impact assessment (EIA) reports, and the public participation process.

### **Overberg District Municipality integrated transport plan (ITP) strategic environmental informants, Western Cape Province, South Africa, Overberg District Municipality, 2009, Environmental Practitioner**

Aurecon's Transportation Unit was appointed to revise the integrated transport plan (ITP). The Environmental Unit was subcontracted to provide environmental input. Responsible for identifying and describing the relevant informants.

### **Annandale Commercial: development of petrol filling station on portion of Erf 5561, Kuils River, Western Cape Province, South Africa, Communicate, 2009, Environmental Practitioner**

Appointed to compile a construction environmental management plan (CEMP) for the construction of a filling station on the corner of Gladioli Street and Amandel Drive, Kuils River. Responsible for the compilation of the project specification document as part of the CEMP.

### **Environmental impact assessment (EIA) for the proposed Langezandt Quays development in Struisbaai Harbour, Western Cape Province, South Africa, Golden Falls (Pty) Ltd, 2008 - Date, Environmental Practitioner**

Aurecon was appointed to undertake an environmental impact assessment (EIA) process for the proposed development of a four storey development on Erf 848 within the Struisbaai harbour precinct. Responsible for drafting responses to the Department of Environmental Affairs' independent review report on the proposed development.

### **Pre-feasibility and feasibility studies for augmenting the Western Cape water supply system, South Africa, Department of Water Affairs (DWA), 2008 - 2013, Project Staff**

The Department of Water Affairs commissioned pre-feasibility and feasibility studies for the augmentation of the Western Cape water supply system through the further development of the surface water resources. Surface water schemes to be investigated were identified by the Western Cape water supply system reconciliation strategy study. Responsible for the public participation process, managing environmental specialists, and compiling a socio-economic overview of the study area.

### **Proposed redevelopment of the Blaauwberg Conservation Area: Eerstestein Node, Western Cape Province, South Africa, City of Cape Town, 2008 - 2010, Environmental Practitioner**

The project entailed an environmental impact assessment (EIA) process for redeveloping the Eerstestein Conservation Area on the West Coast. Responsible for compiling the EIA report, as well as managing specialists and the public participation process.



## Franci Gresse Senior Environmental Impact Assessment Practitioner

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### **Table Mountain Group aquifer feasibility study and pilot project, Western Cape Province, South Africa, City of Cape Town, 2008 - 2010, Environmental Control Officer**

The City of Cape Town initiated a study into the Table Mountain Group Aquifer as a potential water source to augment the city's supply. The feasibility and pilot project phase record of decision (RoD) required completion for site-specific environmental management plans (EMP's) for drilling sites that were assessed to be environmentally sensitive. Site-specific EMP's were designed for sensitive sites to ensure minimal environmental impact during the drilling phase. Responsible for monitoring compliance with the RoD and EMP during the drilling phase.

### **Water reconciliation strategy for the Algoa water supply area, Eastern Cape Province, South Africa, 2008 - 2009, Environmental Practitioner**

This project provided an assessment of the environmental opportunities and constraints for a suite of water schemes in the Algoa water supply area. This was undertaken as part of a broader study in the area.

### **Application for rectification in terms of Section 24G of the National Environmental Management Act (NEMA) for the unlawful commencement of a fruit processing factory on Op de Tradouw Farm, Number 69, Barrydale, Western Cape Province, South Africa, Schoonies Family Trust, 2008 - 2009, Environmental Practitioner**

The project consisted of an application for rectification in terms of Section 24G of NEMA. Responsible for compiling an environmental impact report and an environmental management plan (EMP) for the application, as well as managing the public participation process.

### **Proposed development of apple and pear orchards on Soetmelksvlei Farm, Western Cape Province, South Africa, BETCO, 2008 - 2009, Project Staff**

This Agri-development project involved the development of 50 ha of apple and pear orchards in the Riviersonderend region. Responsible for compiling the basic assessment report, environmental management plan (EMP), and managing the specialists and public participation process.

### **C.A.P.E. Olifants-Doring Catchment Management Agency project: Development of a catchment management strategy water resource protection sub-strategy for the Olifants-Doring Catchment, South Africa, CapeNature, 2008 - 2009, Environmental Practitioner**

Appointed by CapeNature to compile a catchment management strategy water resource protection sub-strategy for the Olifants-Doorn catchment. Responsible for compiling a database that lists all institutions and their respective mandates in terms of water resource protection and biodiversity conservation decision making for the Olifants-Doring Catchment, workshop arrangements, and general project related work.

### **Environmental sensitivity study for the proposed Dasdrif poultry farm in Moorreesburg, Western Cape Province, South Africa, Eikenhoff Poultry Farms (Pty) Ltd, 2008, Project Staff**

The project consisted of an environmental sensitivity study (ESS) which, inter alia, highlighted the potential constraints ('red flags') and opportunities presented by the site from an environmental perspective. Responsible for compiling the ESS.

## **Appendix E2**

### **SPECIALIST DECLARATION AND EXPERTISE**



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA


### DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number:  
NEAS Reference Number:  
Date Received:

(For official use only)
12/12/20/ or 12/9/11/L
DEA/EIA

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, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

### PROJECT TITLE

Working For Wetlands: Kwa-Zulu Natal

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

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fiona@groundtruth.co.za		
Pr.Sci.Nat (Ecologist)		

Project Consultant:  
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Franci Gresse		
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<a href="mailto:Franci.Gresse@aurecongroup.com">Franci.Gresse@aurecongroup.com</a>		

4.2 The specialist appointed in terms of the Regulations\_

I, FIONA EGGERS, 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 48 and is punishable in terms of section 24F of the Act.

  
\_\_\_\_\_  
Signature of the specialist:

GroundTruth

\_\_\_\_\_  
Name of company (if applicable):

03 November 2017

\_\_\_\_\_  
Date:



## Curriculum Vitae – Fiona Eggers



# GroundTruth

## Water, Wetlands and Environmental Engineering

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Web: [www.groundtruth.co.za](http://www.groundtruth.co.za)

### Personal Details:

Name: Fiona Eggers  
Profession: Wetland Specialist  
Date of Birth: 07 April 1986  
Marital Status: Married  
Nationality: South African

### Key Qualifications:

Seven years' experience in varying ecological fields associated with research, environmental management, ecosystem functioning, and education. Fiona Eggers specialises in wetland ecosystems and has had input into numerous studies, including:

- Mapping and infield delineation of wetland and riparian habitat within various regions including KwaZulu-Natal, Mpumalanga and Lesotho for inventory and management purposes;
- Assessing wetland ecosystem functioning and ecological integrity to highlight potential impacts, for both current and post-development/rehabilitation landscapes, and providing appropriate mitigation and offsets;
- Wetland mitigation and offset requirements, including *inter alia* onsite wetland creation;
- Onsite and offsite wetland rehabilitation planning activities;
- Literature reviews and research relating to best management practices, wetland creation, promoting biodiversity and wetland functioning, monitoring and evaluating rehabilitation within wetland systems.

### Education and Training:

- 2014: Course (online) on Constructed Wetlands for Wastewater Treatment (UNESCO-IHE)
- 2011: Sustainable Urban Drainage Systems Workshop, Water Research Commission
- 2010: MSc (Botany), Nelson Mandela Metropolitan University (NMMU)
- 2010: Environmental Law course, Rhodes University
- 2010: Conservation Stewardship and Extension course, NMMU
- 2009: CBNRM (Community-based Natural Resource Management) course, Rhodes University
- 2009: Tools for Wetland Assessment Course, Rhodes University
- 2008: BTech (Nature Conservation, *cum laude*), NMMU
- 2007: Diploma (Nature Conservation, *cum laude*), NMMU

### Professional Memberships:

- Professional Natural Scientist (Pr.Sci.Nat) in Ecological Science – The South African Council for Natural Scientific Professions (Reg. No. 400606/15)
- Founding Member - South African Wetland Society
- International Association for Impact Assessment: South Africa (IAIASa)

### Languages:

Language	Speaking	Reading	Writing
English	1	1	1
German	1	1	3
Afrikaans	3	2	3

(Scale 1-5: 1=excellent, 5=poor)

### Experience Record:

- 2011 – Present: - GroundTruth – Water, Wetlands and Environmental Engineering Consultants.  
Assisting in wetland delineations, wetland assessments, wetland rehabilitation planning, wetland mitigation and offset requirements, and wetland creation projects.
- 2011: Aurecon South Africa .  
Employed as a Junior Environmental Practitioner in the George offices.
- 2007 - 2010: Nelson Mandela Metropolitan University including: Practical Training Student at Mountain Zebra National Park; Green Campus Initiative research; Research assistant to Prof Fabricius (Campus Principal); SI (Supplemental Instruction) leader.

## Countries Worked in:

Lesotho, South Africa.

## Examples of Projects:

- Implementation of wetland rehabilitation planning in KwaZulu-Natal for the national Working for Wetlands Programme from 2016-2018.
- Water Research Commission research project on developing a monitoring and evaluation framework to assess wetland rehabilitation in South Africa.
- Assessments of impacted wetland systems and rehabilitation planning to inform the offset requirements for Exxaro coal mining operations.
- Delineation of the wetland habitat for Tongaat Hulett Developments Amanzimyama and Mount Moreland Landholdings.
- Assessing, onsite mitigation planning, and rehabilitation planning for Tongaat Hulett Developments (THD) Inyaninga and Shongweni Development Site.
- Assessing and onsite wetland rehabilitation planning for the Phase 1 Build of the King Shaka International Airport.
- Wetland habitat rehabilitation/creation for the proposed Darvill Wastewater Treatment Works (WWTW), and Mpofana WWTW.
- Offset assessments and rehabilitation planning for the Sappi Saiccor Comrie Dam.
- Suitable site selection, including the assessment of the potentially impacted wetland habitats, for the proposed Weza Dam Project.
- Assessments of impacted wetland systems and rehabilitation planning to inform the offset requirements for Exxaro coal mining operations.
- Conceptual design for the creation of wetland habitat to capture runoff from the Sasol Mageza Service Station near Pietermaritzburg.
- Compilation of the Umhlanga Ridge Town Centre Environmental and Wetland Offset Management Plan.
- Delineation, assessment and recommendations for three of the Msunduzi Integrated Rapid Public Transport Network sites.
- Delineation, assessments and development recommendations for the proposed Mpophomeni Sewage Pipelines.
- Delineation, assessments and development recommendations for the proposed Willowton Mall development.
- Assessment of the wetland habitat for the onsite mitigation of impacts associated with the proposed Simpson Dam project.
- Assisting with the feasibility and detailed planning studies for the incorporation of wetland ecological infrastructure into the Mpophomeni WWTW, specifically a 'hybrid maturation river', and wetland habitat enhancement downstream of the WWTW outflow on the Sakabula Stream.
- Documenting and compilation of the starter document and proceedings of a workshop held on behalf of the Water Research Commission to establish the level of need for the refinement and/or updating of the Wetland Management Series.
- Assisting with the data collection, GIS processing, draft reporting for the Water Research Commission research on the assessment of the long-term response of two wetlands to Working for Wetlands rehabilitation activities.
- Design and compilation of wetland creation reports, for the treatment of stormwater originating from a wastewater treatment facility and runoff originating from a service station.
- Assessments, rehabilitation planning, and reporting for the onsite mitigation of impacts associated with the proposed Belfast Implementation Project.

## Examples of International Projects:

- Assessment, GIS processing, reporting for wetland rehabilitation of the Qaqa wetland within the Letšeng Diamond Mine in the Lesotho highlands to enhance ecosystem services linked to water quality.
- Mapping and assessment of wetlands to inform Project Kholo, the expansion of Letšeng Diamond Mine in the Lesotho highlands.

## Conference Presentations and Publications:

- Eggers F and Kotze D. 2017. A checklist for assessing the integrity and functionality of wetland rehabilitation interventions. *22<sup>nd</sup> National Wetlands Indaba, Wild Coast Sun, KwaZulu-Natal, October 16-19, 2017.*
- Eggers F. and Cowden C. 2013. Wetland Management Series Review. Water Research Commission: Workshop 104. *18<sup>th</sup> National Wetlands Indaba, St Francis Bay, Eastern Cape, October 22-25, 2013.* Water Research Commission, Pretoria.
- Eggers F, Pike T, Cowden C and Ntloko B. Qaqa wetland – from small-scale alluvial mining area to functional wetland habitat at altitudes in excess of 3000m. *18<sup>th</sup> National Wetlands Indaba, St Francis Bay, Eastern Cape, October 22-25, 2013.*
- Eggers F, Walters D, and Pike T. Mondi – taking the step to a greener economy through wetland rehabilitation. *17<sup>th</sup> National Wetlands Indaba, Klein-Kariba, Limpopo, October 23-26, 2012.*

## **Appendix E3**

### **WETLAND FORUM MEETING MINUTES**



# KZN WETLAND FORUM MEETING

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*Date: 02<sup>nd</sup> December 2016*

*Venue: Ingwe Room, Queen Elizabeth Park, Pietermaritzburg*

*Time: 09:00 – 12:00*

## 1 Welcome

Chair

The chair welcomed all to the meeting.

## 2 Present and apologies

Chair

**Present:** please see attendance register attached

- Scott Haworth (SH)
- Lulu van Rooyen (LvR)
- Erwin Sieben (ES)
- Mlu Ntuli (MN)
- Nancy Job (NJ)
- Joyce Pope (JP)
- Ian Bredin (IB)
- Skhumbuzo Kubheka (SK)
- Mbali Kubheka (MK)
- Cherise Acker-Cooper (CA)

**Apologies** received from:

- Craig Mulqueeny
- Carl Myhill
- Sue van Rensburg
- Hlengiwe Ndlovu
- Charleen Smuts
- Doug Macfarlane
- Jeanne Tarrant
- Ian Rushworth
- Tamsyn Livingstone
- Boyd Escott
- Bimal Naidoo
- Pete Goodman
- Michelle Hiestermann
- Craig Cowden
- Sonja Krueger
- Manisha Maharaj
- Dave Cox
- Rodney Bartholomew
- Lize Shaw
- Tanya Smith

## 3 Approval of previous minutes (May 2016)

Chair

- The chair proposed minutes, Skhumbuzo Kubheka seconded (no corrections noted)

## 4 Confirmation of agenda/ additional agenda items

Chair

- Accepted

## 5 Matters Arising

### 5.1 Actions from previous minutes

#### 5.1.1 EKZNW's Role as a Commenting Authority – Proposed Changes

IB suggested that priority wetland systems which fall outside of EKZNW's focus areas should be identified and provided to EKZNW for possible inclusion into the network of areas they will continue to focus on as a commenting authority. IB suggested that the forum may also be able to provide input into a few key cases / high profile developments that fall within the regulated area of priority wetland systems. CA stated that municipalities may already have a list of priority wetland systems within their areas and these could be used to guide the list of priority areas for KZN. EKZNW's development application map, which we understand continues to be updated, serves as a potential monitoring tool. Developments that may impact on known / mapped priority wetlands could be flagged for possible review. The forum could assist from time to time by reviewing EKZNW database of developments against known wetland locations as a way of flagging potential concerns.

**Action 2 - IB to contact Boyd for access to the updated development applications map and make it available on the wetlands portal**

IB to draught a letter highlighting the issue of EKZNW no longer having the capacity to comment on development applications across the province. IB suggested that the letter should be written in collaboration with key stakeholders, as it would carry more weight than just a letter from the forum. NJ stated the implication of the loss in specific role that EKZNW is no longer able to fill needs to be highlighted in the letter.

**Action 3 - IB to formulate letter and distribute to the forums committee members for their input**

**5.1.2 Mailing list**

IB has circulated an updated mailing list. CA to send through list to IB of emails that are not working

**Action 4 - CA to send list of emails not working to IB**

**5.1.3 Balamhlanga Case**

Ian has determined that a criminal case is still open and is in contact with the current advocate. IB will keep track of the case. **(Action carried over as standing item on agenda)**

**Action 5 - IB to follow progress of criminal case (Balamhlanga)**

**5.1.4 EKZNW and the Balamhlanga Case**

SK stated that the followed up took place on the 1<sup>st</sup> December 2016. Currently, EKZNW have completed the rehabilitation and is handing it over to DEA. SK has no other information. SK stated that he would follow up to track progress of the handover.

**Action 6 - SK to follow up**

**5.1.5 EKZNW and Balamhlanga Case site visit**

SK conducted a site visit. He did not think that the rehabilitation structures were right. SK stated that he cannot be sure if he is correct and suggested that someone with the right experience assess the site. It was recommended that Doug Macfarlane or Damian Walters be asked to assess the rehabilitation structures.

**Action 7 - SK contact Doug Macfarlane or Damian Walters to assess the site**

**5.1.6 32m Set back lines**

SvR not present at meeting. Description provided below. Note for the next meeting to see if anyone has any further questions. Agenda item carried over to next meeting.

- Done: Boyd confirm the following:

The 32 meter trigger threshold stays in place, but the number and type of activities that trigger have changed.

Activity	Description
14	The development of— (i) canals exceeding 10 square metres in size ; (ii) channels exceeding 10 square metres in size; (iii) bridges exceeding 10 square metres in size; (iv) dams, where the dam, including infrastructure and water surface area exceeds 10 square metres in size; (v) weirs, where the weir, including infrastructure and water surface area exceeds 10 square metres in size; (vi) bulk storm water outlet structures exceeding 10 square metres in size; (vii) marinas exceeding 10 square metres in size; (viii) jetties exceeding 10 square metres in size; (ix) slipways exceeding 10 square metres in size; (x) buildings exceeding 10 square metres in size; (xi) boardwalks exceeding 10 square metres in size; or (xii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs— (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse; excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.
23	The expansion of— (i) canals where the canal is expanded by 10 square metres or more in size; (ii) channels where the channel is expanded by 10 square metres or more in size; (iii) bridges where the bridge is expanded by 10 square metres or more in size; (iv) dams where the dam is expanded by 10 square metres or more in size; (v) weirs where the weir is expanded by 10 square metres or more in size; (vi) bulk storm water outlet structures where the structure is expanded by 10 square metres or more in size; (vii) marinas where the marina is expanded by 10 square metres or more in size; (viii) jetties where the jetty is expanded by 10 square metres or more in size; (ix) slipways where the slipway is expanded by 10 square metres or more in size; (x) buildings where the building is expanded by 10 square metres or more in size; (xi) boardwalks where the boardwalk is expanded by 10 square metres or more in size; or (xii) infrastructure or structures where the physical footprint is expanded by 10 square metres or more; where such development occurs— (a) within a watercourse; (b) in front of a development setback adopted in the prescribed manner; or (c) if no development setback has been adopted, within 32 metres of a

watercourse, measured from the edge of a watercourse; excluding the expansion of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.

Within urban areas:

11 The development of tracks or routes for the testing, recreational use or outdoor racing of motor powered vehicles excluding conversion of existing tracks or routes for the testing, recreational use or outdoor racing of motor powered vehicles.

21 The expansion of tracks or routes for the testing, recreational use or outdoor racing of motor powered vehicles excluding conversion of existing tracks or routes for the testing, recreational use or outdoor racing of motor powered vehicles, where the development footprint will be expanded.

### 5.1.7 KZN Wetland Project Catalogue

Kurt Barichiev (KB) absent from the meeting but did send a template to IB. IB provided a brief outline but suggested that they ask KB to give a presentation in the new year.

**Action 8 - IB to follow up with KB**

### 5.1.8 Committee and Committee portfolios

IB stated that not all the committee members are present so this action item will be carried over to the next meeting. IB stated that an Indaba organising committee needs to be established.

**Action 9 - Committee members and portfolios to be established at next meeting**

**Action 10 - An Indaba organising committee needs to be established**

### 5.1.9 The loss of wetlands at Zulti South, eSikhawini

Need to check what actions have been taken. SK and Siya / DWS representative to follow up.

**Action 11 - SK and DWS representatives to follow up**

### 5.1.10 Legal processes and requirements guide

Jacquette has developed the guide and was sent through to IB. IB will circulate to the rest of the forum.

**Action 12 - IB to circulate the guide**

## 5.2 Feedback from the NWI

An invitation for financial support applications to attend the indaba was drafted and sent out. The forum received three applications and all of these applications were approved. The attendants were:

- a) Nondumiso Dumakude (KZNEDTEA)
- b) Andrew Briggs (Eco-Pulse)
- c) Mlungisi Ntuli (Liberty NPO)

Andrew and Nondumiso, although not able to attend the forum meeting, reported to IB that they enjoyed the Indaba and they both learnt a lot. All attendants expressed their gratitude for being afforded the opportunity. MN gave a presentation on Liberty NPO and what he learnt from the Indaba. A copy of the presentation can be made available if required (Contact CA). Key discussions from the presentation were:

- National Wetlands Day: Liberty NPO is planning to celebrate National Wetlands Day in Edendale on the 2<sup>nd</sup> of February 2017. In addition, there may be a second celebration in Zamazulu Wetland on the 24<sup>th</sup> February 2017. MN is meeting with the Department of Education next week to discuss a way forward for Zamazulu event. MN will confirm the dates and events. It was agreed that the KZN Wetland Forum would like to be involved with Liberty NPO. MN agreed that it would be good if the forum supports the event. MN will confirm the event venue and date.

**Action 13 - MN to confirm National Wetlands Day venue**

- IB and LvR stated that it would be valuable for MN to present this presentation at the KZN Wetland Indaba. All forum members present agreed.
- IB stated that he could assist MN in formulating an article on the National Wetlands Day celebrations and submit it to newspapers for submission.

**Action 14 - IB to liaise with MN about articles**

- MN to formulate a programme for the Wetlands Day Celebrations and send through to the forum.

**Action 15 - MN to send through National Wetlands Day Programme**

- JP suggested that the article can also be sent to the Midlands Chronical.

## **6 Standing Matters**

### **6.1 KZN Wetland Management**

SK had nothing to report.

### **6.2 Information/data management and feedback**

**EKZNW**

#### **6.2.1 Wetland Classification**

SK to present wetland classification in January 2017.

**Action 16 - SK to present revised wetlands classification at next meeting**

#### **6.2.2 Wetland Data Submissions Template**

SK sent out the template.

#### **6.2.3 Access of consultants raw data to authorities**

IB has not drafted a letter. He suggested that forum members should make their clients aware of the opportunity to share their information with appropriate authorities. Forum members to provide feedback from their clients. IB will revisit drafting a letter from the forum if feedback identifies that this will be beneficial.

**Action 17 - All members to provide feedback**

### **6.3 SA Wetland Portal**

**EKZNW**

IB to check with SvR / Boyd if there is a map available to load on the wetland portal. IB asked if the wetlands portal is being used. LvR and NT stated that it is being used.

**Action 18 - IB to check with SvR / Boyd w.r.t. a map highlighting development applications is available, and to load on the wetlands portal.**

### **6.4 Wetlands Celebrations/Conferences/Training**

#### **6.4.1 National Wetlands Indaba 2017**

- KZN Wetlands forum will be hosting the National Wetlands Indaba in 2017.
- Forum members agreed that the KZN Wetland Indaba be hosted in the Ilembe district.
- IB stated that ICLEI and MONDI have committed to assist the forum with the Indaba in 2017.
- Forum members agreed that there are many wetlands in eThekweni that the Indaba participants can visit on field trips.
- A possible theme of the Indaba could be 'Urban Wetlands Ecological Infrastructure'.
- Field trips could be centred on a particular challenge facing the different wetlands in the area which the participants visit to find possible solutions. These challenges and solutions can be processed into a handbook which can be distributed to Indaba participants as a reference guide.
- CA stated that EWT- TAP are currently developing Citizen Scientists tools and it would be a great opportunity if they could present their lessons learnt at the Indaba.
- LvR stated that it would be great if the presentations at the Indaba be focused on local community representatives. The forum agreed.

- IB suggested that the forum invite neighbouring countries to the Indaba. All forum members agreed.

**Action 19 - IB to invite neighbouring countries to the Indaba**

- NJ stated that MPU Indaba organisers formulate an 'Indaba Lessons Learnt' hand book and suggested that it be used as a guide to plan the KZN indaba. All agreed.

**Action 20 - IB to follow up with MPU**

- Possible dates for the Indaba are either the 16<sup>th</sup> – 20<sup>th</sup> October OR the 23<sup>rd</sup> – 27<sup>th</sup> October 2017

**Action 21 - Forum members to decide on a date**

#### **6.4.2 National Wetlands Day: Planning for 2017**

**Forum**

*Additional Discussion from 5.2.* - IB stated that the theme for National Wetlands Day 2017 is 'Wetlands for Disaster and Risk Reduction'. IB stated that this does fit well with Liberty NPO's National Wetlands Day Celebration. CA stated that EWT could assist on the 2<sup>nd</sup> February 2017 with a learning programme on frogs and wetlands.

**Action 22 - EWT to assist with learning programme for National Wetlands Day on the 2<sup>nd</sup> February 2017**

IB stated that the Forum can assist with printing Ramsar educational resources.

**Action 23 - IB to determine printing of RAMSAR resources for use on National Wetlands Day Celebrations**

It was agreed that a Wetlands Action Group be established to plan for National Wetlands Day. This team will meet on the 13<sup>th</sup> January 2017. Forum members can volunteer to be a part of this group.

**Action 24 - Forum members to volunteer to assist in planning for National Wetlands Day. Volunteers can let CA and IB know.**

**Action 25 - Wetlands Action Group will meet on the 13<sup>th</sup> January 2017.**

#### **6.5 Mins) Invited presentations/training options for next meetings**

IB recommended that an ICLEI representative present at the next forum meeting. All the forum members agreed. IB stated that he would follow up with Doug and Donovan to see how they are progressing with their WRC project aimed at revising wetland PES assessment methodology.

**Action 26 - IB to follow up with ICLEI and Doug / Donovan**

### **7 Working for Wetlands Presentation**

MK stated that due to changes, the presentation that has been prepared is no longer relevant. MK requested that the presentation be carried over to the next meeting. All forum members agreed.

**Action 27 - MK to give presentation on the 10<sup>th</sup> February 2017**

### **8 New Matters/ Additional Agenda Items**

#### **8.1 Organising Committee for the NWI 2017**

Not enough members were present to elect a committee so this will be a key action for the meeting on the 10<sup>th</sup> of February.

#### **8.2 Proposed New Agenda Items and New Standing Matters**

No recommendations provide. IB to send out agenda.

**Action 28 - IB to send agenda for next meeting**

### **9 Date and Venue of the next Meeting and Closure**

**Chair**

Next meeting date is the 10<sup>th</sup> February 2017. IB will confirm a venue.

**Action 29 - IB to confirm venue**



## **List of Actions**

Action 1 - Forum to prepare Wetland Priority list and to share with EKZNW .....	1
Action 2 - IB to contact Boyd for access to the updated development applications map and make it available on the wetlands portal .....	2
Action 3 - IB to formulate letter and distribute to the forums committee members for their input .....	2
Action 4 - CA to send list of emails not working to IB.....	2
Action 5 - IB to follow progress of criminal case (Balamhlanga) .....	2
Action 6 - SK to follow up.....	2
Action 7 - SK contact Doug Macfarlane or Damian Walters to assess the site.....	2
Action 8 - IB to follow up with KB .....	3
Action 9 - Committee members and portfolios to be established at next meeting.....	3
Action 10 - An Indaba organising committee needs to be established .....	3
Action 11 - SK and DWS representatives to follow up.....	3
Action 12 - IB to circulate the guide.....	3
Action 13 - MN to confirm National Wetlands Day venue .....	3
Action 14 - IB to liaise with MN about articles .....	4
Action 15 - MN to send through National Wetlands Day Programme .....	4
Action 16 - SK to present revised wetlands classification at next meeting .....	4
Action 17 - All members to provide feedback .....	4
Action 18 - IB to check with SvR / Boyd w.r.t. a map highlighting development applications is available, and to load on the wetlands portal.....	4
Action 19 - IB to invite neighbouring countries to the Indaba.....	5
Action 20 - IB to follow up with MPU .....	5
Action 21 - Forum members to decide on a date .....	5
Action 22 - EWT to assist with learning programme for National Wetlands Day on the 2 <sup>nd</sup> February 2017 .....	5
Action 23 - IB to determine printing of RAMSAR resources for use on National Wetlands Day Celebrations.....	5
Action 24 - Forum members to volunteer to assist in planning for National Wetlands Day. Volunteers can let CA and IB know.....	5
Action 25 - Wetlands Action Group will meet on the 13 <sup>th</sup> January 2017. ....	5
Action 26 - IB to follow up with ICLEI and Doug / Donovan .....	5
Action 27 - MK to give presentation on the 10 <sup>th</sup> February 2017 .....	5
Action 28 - IB to send agenda for next meeting .....	5
Action 29 - IB to confirm venue .....	5