

Curriculum Vitae: **Gina Walsh**

Name:	Gina Walsh	Marital status:	Single
Date of birth:	10/07/1981	Driver's license:	Code 8
ID No.:	810710 0037 089	Contact No:	082 422 2793
Place of birth:	Johannesburg, South Africa	Email:	gina@ecotone-sa.co.za
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Education

2006- 2009 University of Johannesburg

- **MSc (Zoology) cum laude**

Dissertation title: *Diatom, Macroinvertebrate and Riparian Vegetation Community Structure Responses in Agriculturally Impacted Rivers.*

2005 Rand Afrikaans University

- **BSc Honours (Zoology) cum laude**

Completed modules include Environmental Impact Assessment, Aquatic Reserve Management, Indices for Biotic Integrity and Aquatic Ecosystems.

Research project: *A Morphometric and Electrophoretic Analysis of Characters used in the Identification Keys for three Yellowfish species Endemic to southern Africa.*

2001-2004 ▪ **BSc (Zoology and Biochemistry)**

Completed courses in Zoology, Biochemistry, Botany, Microbiology, Chemistry and Physics.

1995-1999 Florida Park High School

- Senior Certificate

Employment and Work Experience

'08 Feb – Pres Ecotone Freshwater Consultants CC Member and Consultant

Recent aquatic ecology projects:

- **Transnet New Multi-Purpose Pipeline**, Environmental Officer, Heidelberg, Gauteng (2009 – Present)
- **Sasol GNP Pipeline**, river crossing and aquatic ecology base line survey for high and low flow seasons, Secunda, Mpumalanga (2008/2009).
- Proposed **Eskom Majuba Railway** line development: Base line surveys and monitoring over a 30 month period, Ermelo, Mpumalanga, South Africa (2008 – 2010).

- Proposed **Mulilo Coal Fired Power Station**: aquatic ecology specialists, Messina, Limpopo, South Africa (2008/2009).
- Proposed **Rio Tinto Chapudi Coal Mine**: ichthyological specialists, Soutpansberg, Limpopo, South Africa (2009).
- Proposed **VanMag Vanadium and Magenetite Mine**: aquatic ecology specialists, Mokopane, Limpopo, South Africa.
- **Optimum Colliery biodiversity assessment**: ichthyological specialists, Mpumalanga, Limpopo, South Africa (2009).
- **Lonmin Platinum Mine Biodiversity Assessment (Aquatic Ecology)** - Karee mine area, North West, South Africa (2008 – 2009).
- **Lonmin Biodiversity Assessment (Aquatic Ecology)** - Boabab mine area, Limpopo, South Africa (2009).
- Proposed **Sun City Vacation Club**: aquatic ecology specialists, North West, South Africa (2008).

**'07 Feb-Jan 08' EnviRoss Environmental Scientific Consultants CC
Consultant**

Recent aquatic ecology assessments:

- **ACSA: OR Tambo International Airport**: ecological assessment and rehabilitation plan for the Blaauwpan, Kempton Park, Johannesburg (2008).
- **Tshwane Waste Water Treatment Works**: aquatic biomonitoring assessments, Pretoria (2007/2008).
- Proposed **Ntaba Nyoni cattle feedlot** development: basic aquatic ecology assessment, Mpumalanga (2007).
- Proposed **Lanseria Business Park** development: basic aquatic assessment, Lanseria, Johannesburg (2007).
- Proposed **Firgrove Industrial Estate** development: basic aquatic assessment, Macassar, Western Cape (2007).
- Proposed **Sun City Vacation Club** development: aquatic ecology scoping report, Ledig, North West Province, (2007).
- **Gauteng Freeway Improvement Project**: basic terrestrial fauna and flora assessment, Pretoria (2007).
- **Mooi River Mall** development: specialist riparian vegetation assessments, Potchefstroom (2007).
- **Walter Sisulu National Botanical Gardens**: quarterly aquatic specialist ecological assessments, Johannesburg (2007).
- **Rand Water Fish Health Assessment**: Fish Health Survey, Vaal Dam (2007).
- Proposed **Braam Pretorius Street Upgrade**: Aquatic ecology assessment, Pretoria (2007).

2006 – 2007

**Econ@UJ
Junior Consultant/ Field Assistant**

- **AngloGold/FOSAF/NRF Yellowfish** Hybridisation Research Project, Vaal Dam (2005).
- **SAPPI Risk Management**: biomonitoring and ecotoxicology field work to develop guidelines for SAPPI paper mill effluent, Elands River Valley, Mpumalanga (2006).
- **Total Coal**, Springbok Siding: aquatic ecology assessments to assess open coal siding impacts on the general Olifants River ecosystem, Witbank, Mpumalanga (2006, 2007).

2006 – 2007

**University of Johannesburg
Lecturing**

- Lecture on the topics of riparian vegetation and diatoms in biomonitoring.
- Mentoring of BSc Hons and MSc students.

- Conduct field trips for honours course.

**2005- 2007 Zoology Department, University of Johannesburg
Graduate Research Assistant**

- Planning field excursions, editing of scientific documents, logistics of workshops and field trips, administrative work, technical support and laboratory work.
- Research support to associate Professor.

Workshops and Courses

- July 2009 South African Society of Aquatic Scientists (SASAqS) Congress**
Beyond rapid assessments - time for an aquatic research renaissance in South Africa.
21-24 June, Magliesberg.
- June 2008 Wetland and Riparian Delineation Course**
Wetland Consulting Services and Department of Water Affairs and Forestry (DWAF)
- Dec 2007 Multivariate Statistics Training**
Collaboration between Wageningen University (Holland) and University of Johannesburg, UJ Eiland, Vaal Dam.
- July 2007 Rivers Database Training**
Department of Water Affairs and Forestry (DWAF) – Resource Quality Services, Pretoria.
- Dec 2006 Environmental Management Systems –WTH Management and Training**
ISO 14001, OHSAS 18001 and development of Environmental Management Systems, University of Johannesburg, Auckland Park, Johannesburg.
- July 2006 EcoStatus Training Workshop**
Determination of the ecological states within the eco-classification process with specific emphasis on aquatic invertebrates and riparian vegetation. Department of Water Affairs and Forestry (DWAF) – Resource Quality Services, 11-13th July 2006, Pretoria.
- April 2006 Diatom Training Workshop**
Diatoms in Biomonitoring. Water Research Commission (WRC), 4th April 2006, Gezina, Pretoria, South Africa.
- Nov 2005 Monitoring Contaminant Levels in Freshwater fish**
Qualified as a Health Assessment Index practitioner through the University of Johannesburg, 7-11 November 2005, RAU Eiland, Vaal Dam.
- Jan 2005 Intermediary 4x4 Driving Skills Course & Boat Handling Course**
Intermediary 4x4 handling and driving skills course. RSG 4x4 Expeditions (2005).
Intermediary boat handling course. Rietvlei Dam, Pretoria (2005).

Societies and Accreditations

- May 2008 The South African Council for Natural Scientific Professions (SACNASP)**
Candidate Natural Scientist in ecological and zoological science, registration number: 100023/08.
- July 2007 SASS5 Accredited Practitioner**
Auditors: Christa Thirion (DWAF, RQS), Colleen Todd (DWAF, RQS) and Hermien Roux

(North West Nature Conservation).

Jan 2006 **Member of the Zoological Society of Southern Africa (ZSSA)**

Jan 2006 **Member of the Southern African Society of Aquatic Scientists (SASAqS)**

Presentations

July 2007 **Zoological Society of Southern Africa Conference, Potchefstroom.**
Presented at the 33rd Bi-annual Conference of the ZSSA
Title: *An Investigation of the Ecological Integrity of the Crocodile and Magalies rivers (Hartbeespoort Dam) with Reference to Agricultural Impacts.*

Sept 2005 **PARSA – Parasitological Society of Southern Africa**
Presented at the 34th Annual International PARSA conference
Title: *Utilisation of Host specificity of Monogeneans as a Taxonomic Indicator of Host Yellow Fish Species*

Publications

1. Walsh, G. and Wepener, V. (2009). The influence of land use on water quality and diatom community structures in agriculturally stressed rivers. *Water SA* **35(5)**.
2. Bloomer, P. and Bills, I.R. and van der Bank, F.H. and Villet, M.H. and Jones, N. and Walsh, G. (2007). *Report of the multidisciplinary investigation of differentiation and potential hybridisation between two Yellowfish species Labeobarbus Kimberleyensis and L. Aeneus from the Orange-Vaal system.* Yellowfish Working Group with funding support from AngloGold Ashanti, FOSAF and the National Research Foundation.
3. Ansara-Ross, T., Van den Brink, P.J., Wepener, V. & Walsh, G. (2007). *The use and validation of a probabilistic risk assessment model for estimating potential risks of deltamethrin to the Crocodile River, South Africa.* SETAC – The Society of Environmental Toxicology and Chemistry. Porto, Portugal.
4. Milne, S.J., Walsh, G., Avenant-Oldewage, A. & van der Bank, H.F. (2006). Utilisation of Host specificity of Monogeneans as a Taxonomic Indicator of Host Yellow Fish Species. *Journal of the South African Veterinary Association*, **77(2)**: 92–103

Computer Skills

Competent in the following programs:

- The EcoStatus response suite (FRAI, MIRAI, VEGRAI)
- Canoco and PRIMER v6. statistical suite
- River Database (Version 3)