

## CURRICULUM VITAE

Kurt Russell Barichievy

<b>Present Appointments</b>	Hydrologist (SiVEST Civil Engineering Division) Scientist (SiVEST Environmental Division)
Date of Birth	10 September 1982
Place of birth	East London, South Africa
Nationality	South African
Education	Carter High School, Pietermaritzburg (1996-2000) Matric exemption
Professional Qualifications	BSc. (Hydrology and Environmental Science) UKZN, Pietermaritzburg (2001 – 2004)  BSc. Honours (Hydrology) <i>Cum Laude</i> UKZN, Pietermaritzburg (Feb – Dec 2005)  MSc. (Hydrology) UKZN, Pietermaritzburg (2006 – 2009)
Fields of Specialisation	Hydrology and Environmental Science
Languages	English and Afrikaans

### Synopsis

Kurt completed his undergraduate (BSc) and post studies (BSc Honours; MSc) at the University of KwaZulu Natal in Pietermaritzburg where he focused on hydrology, environmental science, GIS and soil science. During the course of his studies he received the following awards:

- Degree completed with distinction in major programme (hydrology)
- Top 3<sup>rd</sup> year hydrology student (2004)
- Deans commendation (2<sup>nd</sup> semester 2004)
- Certificate of merit for dam design mark achieved 90% (2004)
- BSc Honours (Hydrology) Awarded *Cum Laude*

Before joining SiVEST in December 2008 Kurt had been involved in a number of agricultural assessments, soil surveys, hydrological assessments and wetland related projects throughout KwaZulu-Natal for various environmental and engineering consultancies.

Since joining SiVEST in December 2008 Kurt has become a shared resource between our civil and environmental divisions and as such he has assisted in a wide range of civil and environmentally related projects.

Kurt's software knowledge includes:

- ArcView 3.x
- ArcGIS 8.x
- ArcGIS 9.x
- Lieca Geosystems ERDAS Imagine
- IDRISI
- Microsoft Office Suite
- ACRU Modelling System
- SCS Modelling System
- BRU Modelling System
- PCSWMM
- EPASWMM
- HEC-RAS
- HEC-GEORAS

## Professional History

Dec 2008 – date

### **SiVEST SA (PTY) LTD; Engineering Division: Hydrologist Environmental Division: Scientist**

#### **Flood Lines and Hydrological Assessments:**

- Umkomanzi Drift Flood Line Determination
- Canelands Flood Line Determination
- Ladysmith Shopping Centre Flood Line Determination
- Bergville Prison Flood Line Determination
- Shoprite Pine Town Flood Line Determination
- Msunduzi Flood Line Determination, Pietermaritzburg
- Pinetown Veterinary Quarantine Flood Line

#### *Currently involved in:*

- TURGIS Nickel Mine Flood Line, Barberton

#### **Stormwater Management Plans (SWMP)**

- Montclair SWMP, Durban
- De Aar SWMP, Northern Cape
- Hibiscus Coast Cemeteries SWMP
- Glenwood SWMP, Durban
- Sundumbili, SMP

#### **Wetland Related Projects and Specialist Input:**

- NMPP Wetland Audits, Gauteng
- Brentwood Quarry Wetland Assessment, Gauteng
- Eskom Cable Crossing Wetland Assessments, Gauteng
- Philani Valley Wetland Rehabilitation, Durban
- Eskom Johannesburg Strengthening Wetland Delineation, Gauteng

#### *Currently involved in:*

- Pomona Wetland Delineation, Gauteng

#### **Agricultural Assessments and Specialist Input**

- Spoornet Coal Link Desktop Agricultural Assessments
- Ellingham Estate Agricultural Assessment, Park Rynie
- Redcliffe Agricultural Assessment, Verulam
- Farm Isonti Agricultural Assessment, Umzinto
- Eskom Delareyville Desktop Agricultural Assessment, North West Province
- SAPPI Birdwood Agricultural Assessment, Richards Bay
- Eskom Vryburg Desktop Agricultural Assessment, North West Province
- Lungisisa Village Agricultural Assessment, Hazelmere
- Mogale City EMF, Gauteng
- TURGIS Bon Accord Nickel Mine, Barberton

#### *Currently involved in:*

- Eskom Thyspunt Agricultural Assessment, Eastern Cape
- Spoornet Coal Link EIA Phase Agricultural Assessments
- Kokstad Agricultural Assessment

#### **Irrigation and Crop Water Demand Planning**

- Nomalanga Estates, Greytown

**Water Use Licensing**

- Ladysmith pedestrian bridges
- Ndundulu Road

**Basic Assessments**

- Killarney Broiler Farm, Cato Ridge

**Aug 2008 – Nov 2008****Terratest Geotechnical, Environmental and Earth Science Consultants: Part Time Consultant**

Performing agricultural and soil assessments.

**April 2008- Nov 2008****WSP Environmental Consultants: Part Time Consultant**

Performing wetland delineation, functional wetland assessments and hydrological assessments.

**April 2007 – May 2007****University of KwaZulu Natal: Part time lecturer for second year students**

Presented lectures for the course, set out class assignments.

**Jan 2007- Aug 2008****Afzelia Environmental Consultants: Part Time Consultant**

Leader of soil survey and agricultural assessments based at:

- Baronberg Estate, Mooi River
- Hillside Estate, Nottingham Road
- Rawdons Estate, Nottingham Road
- Heritage Ridge Estate, Hluhluwe
- Comdene, Albert Falls
- Kort Krans Kloof Farm, Wartburg
- Mortons Haven, Howick
- Sierra Ranch, Mooi River
- Albert Falls Waterfront Village and Bush Lodge, Albert Fall
- Cleopatra Estate, Kamburg.

As well as performing wetland delineations and functional wetland assessments.

**June 2005- July and Dec 2005 – Jan 2006****DAEA: Data Capturer**

Project involved capturing old EIAs into the new NEAS database used by government agencies.

**2003-2006****University of KwaZulu Natal: Head Demonstrator**

Demonstrator for a student based soil classification survey conducted on an annual basis to Bonamanzi and Hluhluwe Game Reserves.