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<b>Present Appointment</b>	Senior Environmental Scientist:
<b>Nationality</b>	South African
<b>ID Number</b>	8002250080080
<b>Date of Birth</b>	25 February 1980
<b>Education</b>	<b>Matriculation</b> (Hoërskool Midrand High School in Midrand, South Africa (1997), Distinctions in Biology and Afrikaans.
<b>Professional Qualifications</b>	<p><b>MSc in African Mammalogy</b> (University of Pretoria RSA 2002-2004)  <b>Coursework:</b> Mammal reproduction systems, Conservation ecology, Mammal Ecology, Conservation in practice.  <b>Masters Paper:</b> Vertical Stratification of African Browsers.</p> <p><b>BSc Honours in Biodiversity and Conservation</b> (Rand Afrikaans University, Johannesburg, RSA 2001)  <b>Coursework:</b> Ecoparasitology, Plant Taxonomy, Population genetics, Molecular biology (botany), Laboratory / field techniques, EIA studies, Animal Taxonomy  <b>Honours Research Paper:</b> The evolution of side winding</p> <p><b>BSc Degree in Biological Sciences</b> majoring in Botany and Zoology (Rand Afrikaans University, Johannesburg, RSA 1999-2000)</p> <p><b>Grass Identification</b> Course presented by Frits van Oudtshoorn of Bushveld Eco Services – January 2009</p> <p><b>Short Course Soil Classification and Wetland Delineation</b> presented by Johan van der Waals (Terra Soil Science) and Cornie van Huysteen (University of the Free State)</p> <p><b>Wild Flower Identification</b> Course – presented by Andrew Hankey on behalf of Frits van Oudtshoorn of Bushveld Eco Services – November 2009</p>
<b>Professional Registrations</b>	Member of the South African Council for Natural Scientific Professions – Ecological Science (Reg.No. 400224/06 - 5/9/2006)
<b>Field of Specialisation</b>	Biodiversity (Zoology and Botany), Environmental Management
<b>Languages</b>	English, Afrikaans

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**Synopsis** Liesl joined SiVEST in 2004 and is based in the Johannesburg office in the capacity of a Senior Environmental Scientist.

Liesl has a comprehensive knowledge of the fauna and flora of South Africa. She has been involved in several projects to which these skills have been applied. Liesl fills the role of a project leader and has led several large EIA's in addition to being an integral team player on several other EIA's being conducted by the company. Projects include full Environmental Impact Assessments as well as Basic Assessments. Liesl has also been involved in teams on large projects such strategic environmental studies and large scale EIA studies. Liesl has gained substantial experience in Environmental Auditing and biodiversity assessments and has conducted several of these studies.

Through her time at SiVEST Liesl has acquired the following skills:

- Biodiversity Assessments
- Environmental Impact Assessment

- Environmental Management Plans and auditing
- Alien invasive identification and control measures
- Grass Identification
- Tree Identification
- Project Management (MS Project)
- Strategic Environmental Planning
- Environmental Compliance Monitoring
- Pre Acquisition auditing
- Environmental Training
- Rehabilitation

## Professional History

Sep 2004 – to date

**SiVEST Environmental Division: Senior Environmental Scientist**

### Project involvement:

Liesl is a project manager, managing the finances, and technical content of a number of projects and a project assistant on several others.

### **BIODIVERSITY ASSESSMENTS**

- Baseline floral assessment - Nedbank Bike trail Exemption Application
- Scoping level Vegetation Assessment - Ngala Lodge Detailed Scoping Report and EMP for CC Africa
- Scoping level Vegetation Assessment – residential development, Krugersdorp
- Scoping level Vegetation Assessment – various Sasol filling stations
- Scoping level Vegetation Assessment and advisory role during EIA– Petronet Pipeline, Gauteng
- Ecological Assessment - Rand Water Reservoir, Weltevreden Park
- Biodiversity Input into Gert Sibande SDF
- Vegetation assessment for Clarens SEA and SDF
- Scoping level Vegetation Assessment – Eskom Malelane Substation
- Biodiversity Screening for Proposed Casino, Steelpoort
- Vegetation assessment for Thaba Thala Wetland Assessment
- Floral and Faunal assessments for New Multi Products Pipeline, Transnet Pipelines (in collaboration with other specialists)
- Biodiversity assessment for City of Johannesburg Municipal area
- Desk top biodiversity assessment for proposed conference centre, Skukuza
- Delineation of sensitive areas for Rand Water Pipeline, Hartebeespoort
- Faunal assessment for Eskom Thyspunt Transmission lines
- Biodiversity assessment for the City of Johannesburg Municipal area. (in collaboration with other specialists)
- Biodiversity input into the City of Johannesburg State of the Environment Report.
- Rehabilitation plan for copper mine, Democratic Republic of Congo
- Desk top biodiversity assessment for proposed Green House Lodge, Madikwe Game Reserve
- Faunal assessment for the proposed Thyspunt Eskom Transmission Power Lines.
- Biodiversity Assessment for Eskom Transmission Cable Replacement, Gauteng.
- Biodiversity Assessment for Delareyville – Kopela – Phahameng 132kV Distribution Power Line, North West Province
- Biodiversity Assessment for the Mookgodi Integration 132kV Distribution Power Line, North West Province
- Biodiversity Scan for the proposed development of new Makro in Magaliessig, Gauteng

### **AMENDMENT APPLICATIONS**

- Amendment application for working times, Modderfontein Frontage Road
- Amendment application for route realignment, Rangeview Reservoir, Mogale City
- Amendment Application for route realignment, New Multi Products Pipeline, Gauteng

**S24G RECTIFICATION APPLICATIONS**

- S24G Rectification application of Gayatri Paper Mill (Pty) Ltd

**WATER USE LICENSES**

- WULA for Morukuru Lodge, Madikwe Game Reserve

**EXEMPTION APPLICATIONS****Commercial**

- Montecasino Exemption Application for Tsogo Sun
- Nedbank Bike trail Exemption Application
- Forum Homini Lodge Exemption Application

**Water Supply**

- Exemption Application for Johannesburg Water pipeline, Olivedale

**Housing**

- Exemption Application and EMP for Residential Development in Krugersdorp, Johannesburg.

**BASIC ASSESSMENTS, ENVIRONMENTAL IMPACT ASSESSMENTS, ENVIRONMENTAL MANAGEMENT PLANS AND STRATEGIC ENVIRONMENTAL ASSESSMENTS****Commercial**

- Ngala Lodge Detailed Scoping Report and EMP for CC Africa
- Assistance with Sasol PO Plant Scoping report
- Environmental Management Plan and Ecolink Report for East End Development at Montecasino Johannesburg for Tsogo Sun
- Environmental Impact Assessment, Eskom Malelane Substation, Malelane
- Environmental Impact Assessment, Newmarket Retail development, Alberton
- Basic Assessment report for decommissioning of Starch Mill, Meyerton
- Basic Assessment Report for expansion of African Starch Mill, Klipriver, Meyerton
- Input into Zeus- Mercury Final Environmental Management Plan
- Environmental Impact Assessment for proposed conference centre, Skukuza, Kruger National Park
- Basic Assessment for the proposed development of a lodge in the Madikwe Game Reserve
- Environmental input into Bankable Feasibility Study for Uranium Mine
- Environmental Summary and Environmental Management Plan for the AK06 Bankable Feasibility Study
- Environmental Impact Assessment for Proposed Miwani Sugar Mill as part of a Bankable Feasibility Study, Kenya

**Housing**

- Krugersdorp Residential Scoping report and EMP
- Scoping Report for the Gateway Precinct, Soweto for Joburg Property Company
- Letamo Estate (Cradle of Humankind) Environmental Management Plan revision
- Proposed Westlake Mixed Use Development Environmental Impact Assessment (Scoping Phase)

**Petrol Filling Stations**

- Assistance and Compilation of several Sasol Filling Station Scoping Reports (ECA)

### **Infrastructure**

- Assistance and Compilation of EIA for New Multi-Products Pipeline, Petronet SA
- Rand Water pipeline extension Basic Assessment, Weltevreden Park
- Basic Assessment for the replacement of G7 Rand Water Pipeline Ekurhuleni
- Basic Assessment for realignment of Valley Road, Modderfontein – Heartland Properties
- Basic Assessment for the replacement of the L5 Rand Water pipeline, Brakpan.
- Basic Assessment for decommissioning of the Rand Water Lime Plant, Vereeniging.
- Scoping Report and EMP for Rand Water Reservoir, Weltevreden Park, Johannesburg
- Compilation of rehabilitation plan for copper mine
- Environmental Impact Assessment for Railway line and water pipeline, Hotazel
- Environmental Impact Assessment for proposed Thyspunt Eskom Transmission Power Lines, Port Elizabeth
- Environmental Impact Assessment for development of Sasol Synfuels Clean Fuels programme (project scrapped by client during Scoping)
- Basic Assessments for upgrade of Cape Nature Infrastructure at 3 nature reserves, Western Cape
- Environmental Impact Assessment for the Delareyville –Kopela – Phahameng 132kv Distribution Power Line, North West.
- Environmental Impact Assessment for the Mookgodi Integration 132kV Distribution Power Line, North West Province

### **STRATEGIC ENVIRONMENTAL PROJECTS**

- Strategic Environmental Assessment for Marula Region of the Kruger National Park
- Compilation of the review of the Mogale City Local Municipality Environmental Management Framework
- Compilation of the 2008 City of Johannesburg State of Environment Report
- Compilation of Fatal Flaw Analysis for power line routing for the Nelson Mandela Bay Metropolitan Municipality
- Compilation of Fatal Flaw Analysis for site selection of CSP and PV plants, Northern Cape.
- Assistance with West Rand State of the Environment Report
- Gert Sibande SDF

### **ENVIRONMENTAL AUDITING**

*Environmental auditing includes training of staff where required*

- Environmental Auditing of East End Development at Montecasino for Tsogo Sun
- Marataba Lodge Environmental Auditing for Hunter Hotels
- Riverside Boulevard Environmental Auditing for Red Tape Investments
- Greenstone Hill residential construction audit
- Construction of Whites Avoca Luxury Lodge – Timbavati Private Game Reserve
- Construction of Luxury House – Sabi Sands Game Reserve
- Construction of Rand Water 100ML reservoir, Weltevreden Park
- Rangeview Water Reservoir and pipeline– Mogale City
- Construction of Gautrain on heartland Properties, Johannesburg
- Rand Water pipeline, Hartebeespoort
- Redevelopment of Newmarket racecourse

- Installation of civil services for residential development by Sable Homes, Pretoria
- Construction of the Modderfontein Frontage Road, Heartland Properties
- Assistance with New Multi Products Pipeline wetland / River crossing monitoring
- Construction of the Pivot (extension of existing Montecasino)
- Construction of the Skukuza Conference Centre, KNP
- Renovation of Morukuru Farmhouse, Madikwe Game Reserve
- Decommissioning of Zuikerbosch Lime Plant, Vereeniging
- Rehabilitation of Mushroom Farm Park
- Installation of Bulk Services, Curro School, Hazeldean
- Construction of Installation of Bulk Services, Curro

#### **DUE DILIGENCE**

- Due Diligence assessment for proposed SABMiller site in Knysna
- Due Diligence assessment for proposed SABMiller site in Mafikeng
- Due Diligence assessment for proposed SAB Miller site in Mkuze

#### **ENVIRONMENTAL EDUCATION**

- Presentation of EIA course for UNISA B TECH students (annual event)

#### **ENVIRONMENTAL MANAGEMENT SYSTEM**

- Compilation of Phase of the Environmental Management System for the Montecasino precinct.

**Feb 2004 –July 2004:**

**Memar Television, Johannesburg. : Biology subject specialist**

Production of educational biology videos for Ethiopian school children. This entailed the proofing of content for videos and sourcing educational material for the making of videos.

**Dec 2000 – Feb 2004**

**University of Pretoria : Various Tutoring positions** as well as other institutions while studies were undertaken