

## CURRICULUM VITAE OF ARLENE SINGH

<b>Profession :</b>	Environmental Assessment Practitioner (EAP)
<b>Specialisation:</b>	Environmental Assessments, report writing, report reviewing, development of project proposals for procuring new projects and project administration.
<b>Work Experience:</b>	5 years' experience in Environmental Assessments and 1 year in Sustainability Consulting.

### VOCATIONAL EXPERIENCE

Professional execution of consulting services for projects in the environmental management field, specialising in Environmental Impact Assessment studies, environmental permitting, public participation, compilation of Environmental Management Plans and Programmes, environmental policy, and integrated environmental management. Responsibilities include report writing, project management, review of specialist studies and the identification and assessment of potential negative environmental impacts and benefits. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation.

Experience in conducting environmental impact assessments for infrastructure development projects (roads, stormwater, pipelines), Mixed Use Developments and Section 24G Applications for complex projects. She has extensive experience in managing and monitoring ECO functions and compliance on relevant projects. She has gained the ability to conduct sustainability assurance audits for non-financial environmental KPI's through her experience with listed mining corporations.

### SKILLS BASE AND CORE COMPETENCIES

- Compilation of environmental impact assessment reports and environmental management programmes in accordance with relevant environmental legislative requirements;
- Identification and assessment of potential negative environmental impacts and benefits through the review of specialist studies;
- Key experience in the assessment of impacts associated with complex Section 24G Applications.
- Review of environmental impact assessment reports, impacts matrices and environmental management programme reports;
- Conducting of ECO audits, managing ECO staff, review of ECO reports and liaison with the client;
- Review of Carbon Footprint Analysis report and provision of recommendations for industry;
- Developing Business Development Plans, action plans and carrying out Business Development initiatives;
- Compilation of Integrated Reports in line with King IV;
- Conducting Mining Permit Applications with the DMR and the associated Basic Assessment process in line with the MPRDA;
- Extensive experience in compilation and submission of Tenders and Proposals;

## EDUCATION AND PROFESSIONAL STATUS

### Degrees:

- B.Sc. (Hons.) Environmental Management (2016), University of South Africa (UNISA);
- B.Sc. Environmental Science (2012), University of Kwa-Zulu Natal, Westville

### Short Courses:

- Official DWS Section 21 (c) and (i) Water Use Authorisation Course (2018)- Dr Wietsche Roets, Specialist Scientist: (In Stream Water Use);
- SMME Green Building Face to Face Workshop (2018)- GBCSA hosted by JP Morgan;
- ArcGISBasic 10,3 (2016)- Esri South Africa

### Professional Society Affiliations:

- IAAsa- Member
- South African Council for Natural Scientific Professionals - Candidate Natural Scientist: Environmental Scientist) – Reg No. 118872

### Other Relevant Skills:

- Compiling and submission of invoices on projects;
- Registration of Waste Management Facilities on GWIS

## EMPLOYMENT

Date	Company	Roles and Responsibilities
<b>08 April 2019- Current:</b>	Savannah Environmental (Pty) Ltd	Environmental Assessment Practitioner  <i>Tasks include:</i> <i>Compilation of Environmental Impact Assessment (EIA) reports; Basic Assessment (BA) reports and Environmental Management Programmes; Environmental Screening reports; Co-ordination of the public participation process; Project management; project proposals and tenders; Client liaison and Marketing; Process EIA Applications.</i>
<b>01 January 2016- 05 April 2019</b>	Triplo4 Sustainable Solutions (Pty) Ltd	Environmental Consultant/Gauteng Office Manager  <i>Tasks included:</i> <i>Review of Basic Assessment reports, Environmental Management Programme reports, Impact Matrices. Review of Environmental Control Officer functions, report and planning of site visits. Compiling Waste Management License Applications and Section 24G Application with reports for review by company Director. Review of specialist reports. Compilation of tenders, proposals and fee proposals. Co-ordinate public participation processes. Liaison with clients,</i>

Date	Company	Roles and Responsibilities
		stakeholders and competent authorities. Business Development, Integrated reporting. Strategy, policy and procedure development. Planning of staff on engagements and Invoicing of clients.
<b>01 October 2014 – 31 December 2015</b>	PricewaterHouse Coopers (PwC)	Sustainability Consultant 2  <u>Tasks included:</u> Non-financial auditing of Environmental KPI's (Primary water, Total Waste, Total Electricity, Total CDP Calc, Scope 1, 2 and 3 emissions, Total CSI spend, Total Environmental incidents and Total Rock waste generated) for listed mining companies. Role included, testing of controls, applications of audit standards and guidelines, preparation and conclusions of audit papers and files, reporting to management and preparation of audit reports.
<b>01 January 2013- 30 September 2014</b>	Triplo4 Sustainable Solutions (Pty) Ltd	Junior Environmental Consultant  <u>Tasks included:</u> Conducting Environmental Control Officer audits and drafting of ECO reports for review. Drafting of Basic Assessment (BA) reports, Environmental Management Programme reports for review by Environmental Consultant. Conducting public participation by liaison with competent authorities and stakeholders. Assisting with compiling of Basic Assessment documents.

## PROJECT EXPERIENCE

Arlene has experience in conducting environmental impact assessments for infrastructure development projects (roads, stormwater, pipelines), Mixed Use Developments and Section 24G Applications for complex projects. She has extensive experience in managing and monitoring ECO functions and compliance on relevant projects. She has gained the ability to conduct sustainability assurance audits for non-financial environmental KPI's through her experience with listed mining corporations.

### **MINING SECTOR PROJECTS**

#### **Environmental Impact Assessments and Environmental Management Programmes**

Project Name & Location	Client Name	Role
Yzermyn Coal Mine EMPr, Piet Retief, Mpumalanga	Atha Group	EAP

#### **Basic Assessments**

Project Name & Location	Client Name	Role
Shaya Quarry Basic Assessment process, Empangeni, Kwazulu-Natal	Mbavuzza Minerals	Project Manager

Umvoti River Sand Mining Basic Assessment process, Kwazulu-Natal	Izimbiwe Minerals Pty Ltd	Project Manager
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#### **Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Shaya Quarry Mining Permit Application, Empangeni, Kwazulu-Natal	Mbavuzi Minerals	Project Manager
Umvoti River Sand Mining Mining Permit Application, Kwazulu-Natal	Izimbiwe Minerals Pty Ltd	Project Manager
Newark Quarry, Ilembe Municipality, Kwazulu-Natal	iLembe Concrete Pty Ltd	Junior EAP

#### **INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, ROADS, WATER RESOURCES, STORAGE, ETC)**

##### **Basic Assessments**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Replacement of Nseleni Bridge- Empangeni, Kwazulu-Natal	RHDHV	EAP
Construction of the 60ML Ntuzuma Reservoir, Ntuzuma, Kwazulu-Natal	eThekweni Metropolitan Municipality	Project Manager
Upgrade of the Nyathikazi box culvert, Darnell, Kwazulu- Natal	KwaDukuza Municipality	Junior EAP
Upgrade and Expansion Provincial Main Road D887, Kwazulu-Natal	RHDHV	Junior EAP

##### **Environmental Compliance, Auditing and ECO**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
ECO Monitoring for Construction of Offtake 1 Reservoir, KwaDukuza, Kwazulu-Natal	KwaDukuza Municipality	Project Manager
ECO Monitoring for Construction of Offtake 6A2, 6D, 8C, 8D, 9, 11D Pipelines, KwaDukuza, Kwazulu-Natal	KwaDukuza Municipality	Project Manager
ECO Monitoring for the Construction of the Jozini RCWSS Phase 1A, Jozini, Kwazulu-Natal	RHDHV	ECO (1 year), Project Manager
ECO Monitoring for the Greytown BWSS, Greytown, Kwazulu-Natal	RHDHV	Project Manager
ECO Monitoring for the Kranskop Water Supply Scheme, Kranskop, Kwazulu-Natal	RHDHV	ECO
ECO Monitoring for the Zulti South Access Road, Richards Bay, Kwazulu-Natal	RHDHV	Project Manager

##### **Compliance Advice and ESAP reporting**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Ethafeni Cemetery Environmental Assessment Report, KwaDukuza, Kwazulu-Natal	KwaDukuza Municipality	EAP

#### **Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
General Authorisation for the Replacement of the Nseleni Bridge, Empangeni, Kwzulu-Natal	RHDHV	EAP

#### **HOUSING AND URBAN PROJECTS**

## **Environmental Impact Assessments and Environmental Management Programmes**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Ethafeni Precinct Project Section 24G Application-Groutvill , Kwazulu- Natal.	KwaDukuza Municipality	Project Manager/Lead Consultant
Environmental Management Programme report Brettenwood Residential Development, Kwazulu-Natal.	Brettenwood Coastal Estate	EAP
Environmental Management Programme report for CTM Ballito, Ballito, Kwazulu-Natal	CTM	EAP

## **Basic Assessments**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Upgrade of residential dwelling on Colwyn Drive, Salt Rock, Kwazulu-Natal	Mike Graham	Junior EAP
Ethafeni Precinct Project Basic Assessment, Groutville, Kwazulu-Natal	KwaDukuza Municipality	Project Manager
105 Nkwazi Drive Single Residential House Basic Assessment, Zinkwazi, Kwazulu-Natal	Ituwiz Pty Ltd	Project Manager

## **Environmental Compliance, Auditing and ECO**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
88 Compensation ECO Audits – Ballito, Kwazulu-Natal	Imali Corp	Environmental Control Officer (ECO)
Oceans Umhlanga Hotel & Residential Development, Umhlanga, Kwazulu-Natal	Edison Property Group	Project Manager
Inoxa Cookware Factory Warehouse, Woodmead Estate, Shakaskraal, Kwazulu-Natal	Shree Property	Project Manager
Woodmead Estate Warehousing, Gauteng	Shree Property	Project Manager
Ridgeside Commercial Development, Umhlanga, Kwazulu-Natal	Shree Property	Project Manager
Construction of Jozini Shopping Centre, Jozini, Kwazulu-Natal	GK Projects	ECO
Birdhaven Residential Development, Ballito, Kwazulu-Natal	Mike Graham Trust	ECO
Foxhill Church and Residential Development, Ballito, Kwazulu-Natal	M&C Janigh Trust	ECO
Beema Bamboo Plantation Site (Bamboo to Energy project, Kwazulu-Natal	Green Grid Energy	ECO

## **OTHER PROJECTS**

### **Environmental Compliance, Auditing and ECO**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Beema Bamboo Plantation Site (Bamboo to Energy project, Kwazulu-Natal	Green Grid Energy	ECO
Mkondeni Medical Waste External Waste Management License Audit , Pietermaritzburg	Ecocycle Waste Solutions	Auditor
Dube Tradeport External Audit, eThekwin	Dube Tradeport Corporation	Junior Auditor

### **Carbon Footprint Analysis**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Carbon footprint analysis of Newcastle and Sasolburg Plants, (Kwazulu Natal & North West	Karbochem Pty Ltd	EAP
Measure Carbon Emissions and provide updated baseline that would enable DTPC to quantify, monitor and assess carbon footprint and its climate change impact for DTPC, eThekwini	Dube Tradeport Corporation	Junior EAP

### **Waste Management**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Waste Classification Assessment for Karbochem Newcastle facility , Kwazulu-Natal	Karbochem Pty Ltd	EAP
Waste Management Licenses for Wadeville & Rosslyn Waste Management Facilities, Gauteng.	Planet Care Pty Ltd	EAP

### **Compliance Advice and ESAP reporting**

<b>Project Name &amp; Location</b>	<b>Client Name</b>	<b>Role</b>
Environmental Opinion and Enquiry for the Rosslyn Tyre Pyrolysis Plant, Gauteng	Cosmic Energy	EAP

### **Non-Financial Auditing**

<b>KPI'S Audited</b>	<b>Client Name &amp; Location</b>	<b>Role</b>
Total Primary Water Use, Total Electricity Used, Total Waste Generated, Scope 1, 2 & 3 Emissions and Total Number of Environmental Incidents.	Anglo Platinum (South Africa)	Sustainability Consultant
Total Primary Water Use, Total Waste Generate and Total Number of Environmental Incidents.	De Beers (Namibia)	Sustainability Consultant
Scope 1, 2 & 3 Emissions, Total Electricity Purchased, Total Primary Water Used.	Harmony Gold (South Africa)	Sustainability Consultant
Scope 1, 2 & 3 Emissions, Total Electricity Purchased, Total Primary Water Used and Total Rock Waste Generated.	Exxaro (South Africa, Papua New Guinea)	Sustainability Consultant
Total Corporate Social Investment fund spend by Barclays Group	Barclays Group	Sustainability Consultant
Audit Environmental and Social Risk Finance Projects -Equator Principles	MTN (South Africa & Nigeria)	Sustainability Consultant



# SACNASP

South African Council for Natural Scientific Professions

**herewith certifies that**

**Arlene Singh**

Registration number: 118872

**is registered as a**

**Candidate Natural Scientist**

in terms of section 20(3) of the Natural Scientific Professions Act, 2003  
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

**Environmental Science**

Effective **06 June 2018**

Expires **31 March 2020**



*Botha*

President

*Executive Director*

Executive Director