

# Selma Nel

## Principal Scientist



<b>Profession</b>	Scientist
<b>Education</b>	MA, Environmental Management, University of Johannesburg, 2007 BA (Hons), Geography and Environmental Management, Rand Afrikaanse Universiteit, 2004 BA, Geography and Environmental Management, Rand Afrikaanse Universiteit, 2003
<b>Registrations/ Affiliations</b>	Member, IAIAAsa
<b>Awards</b>	None

### Specialisation

Environmental impact assessments, basic assessments, environmental management plans/programmes, environmental due diligence auditing, project management, environmental, management assessments, specialist coordination, stakeholder engagement.

### Expertise

Selma Nel has been involved in the field of environmental management for the past 14 years. Her expertise includes:

- project management and coordination of integrated environmental impact assessments, environmental management programmes;
- environmental impact assessments and basic assessments for mining and energy related projects in South Africa;
- specialist team co-ordination and drafting Terms of Reference (ToR);
- compliance audits in respect of environment, waste and water as well as international standards;
- analysis of environmental and social impacts assessment (ESIA) and environmental and social management plan/programmes (ESMP) prepared by other consultancies (outside South Africa) for African projects to determine level of upgrading required to meet international standards;
- compilation of technical environmental documents, programmes and reports;
- conducting environmental control officer work environmental projects;
- environmental pre-feasibility and feasibility assessment input;
- site selection assessment input;
- environmental compliance audits in terms of NEMA, MPRDA, NEM: WA and NWA;
- stakeholder engagement; and
- vendor due diligence.

### Employment

<b>2010 – present</b>	SRK Consulting (Pty) Ltd, Principal Scientist, Water Department, Johannesburg
<b>2007 – 2010</b>	GCS Consulting, Environmental Scientist, Environmental Department, Rivonia
<b>2003 – 2007</b>	University of Johannesburg, Academy for Information Technology, Administration Assistant
<b>1999 – 2000</b>	ABSA (Rivonia), Client Services Administrator

### Publications

None

### Languages

English – read, write, speak  
Afrikaans – read, write, speak

# Selma Nel

## Principal Scientist

### Key Experience: Project management: impact assessment projects

Location: Emalahleni, Limpopo  
 Project duration & year: June 2020  
 Client: Anglo American Coal South Africa  
 Name of Project: Greenside Colliery Dewatering Project  
 Project Description: Basic Assessment and Water Use Licence for the dewatering of underground mining areas relating to the Greenside Colliery for continuation of the underground mining operation.  
 Job Title and Duties: Principal Scientist - Project Manager

- Project management
- Coordination and management of specialists
- Technical review of project against current environmental related legislation
- Compilation of technical environmental document and public participation documentation
- Stakeholder engagement
- Client liaison

Value of Project: R 430 000

Location: Emalahleni, Limpopo  
 Project duration & year: March 2020  
 Client: Anglo American Coal South Africa  
 Name of Project: SACE Complex – Clydesdale Pit Project  
 Project Description: Pre-Feasibility study in terms of Anglo's IDM requirement  
 Job Title and Duties: Principal Scientist - Project Manager

- Project management
- Coordination and management of specialists
- Technical review of project against client document requirements
- Compilation of technical documentation aligned with certain IDM Chapter requirements
- Stakeholder engagement
- Client liaison

Value of Project: R 500 000

Location: Steelpoort, Limpopo  
 Project duration & year: January 2020  
 Client: Anglo American Platinum – Rustenburg Platinum Mines Limited: Der Brochen and Mototolo Complex  
 Name of Project: Der Brochen and Mototolo Mine Consolidation  
 Project Description: Consolidation of Der Brochen Mine's and Mototolo Mine's EMPs  
 Job Title and Duties: Principal Scientist - Project Manager & EAP

- Project management
- Technical review of project against current environmental related legislation
- Compilation of technical environmental document and public participation documentation
- Stakeholder engagement
- Client liaison

Value of Project: R 390 000

# Selma Nel

## Principal Scientist

### **Key Experience:      Project management: impact assessment projects**

Location: Lebowakgomo, Limpopo  
 Project duration & year: July 2019  
 Client: Sibanye Stillwater – Lonmin Operations  
 Name of Project: Research Crusher Plant Project Extension  
 Project Description: Extension of Environmental Authorisation process in terms of a temporary research crusher plant project  
 Job Title and Duties: Principal Scientist - Project Manager & EAP

- Project management
- Technical review of project against current environmental related legislation
- Compilation of technical environmental document and public participation documentation
- Stakeholder engagement
- Client liaison

Value of Project: R 40 000

Location: Steelpoort, Limpopo  
 Project duration & year: July 2018  
 Client: Anglo American Platinum – Rustenburg Platinum Mines Limited: Der Brochen Mine  
 Name of Project: Der Brochen Amendment Project  
 Project Description: Integrated Environmental Authorisation process in terms of the proposed amendment to the Der Brochen Mine Project  
 Job Title and Duties: Principal Scientist - Project Manager & EAP

- Project coordination and management
- Technical review of project against current environmental related legislation
- Compilation of technical environmental documents, programmes and reports;
- Coordination and management of specialists
- Authority and Stakeholder consultation
- Client liaison

Value of Project: R 1 500 000

# Selma Nel

## Principal Scientist

### **Key Experience: Project management: impact assessment projects**

Location:	Lebowakgomo, Limpopo
Project duration & year:	April 2017
Client:	Anglo American Platinum – Rustenburg Platinum Mines Limited: Rustenburg Section – Mogalakwena Mine
Name of Project:	Research Crusher Plant Project
Project Description:	Environmental Authorisation process in terms of a temporary research crusher plant project
Job Title and Duties:	Senior Environmental Scientist - Project Manager & EAP <ul style="list-style-type: none"> <li>• Project coordination and management</li> <li>• Technical review of project against current environmental related legislation</li> <li>• Compilation of technical environmental documents, programmes and reports;</li> <li>• Coordination and management of specialists</li> <li>• Authority consultation</li> <li>• Client liaison</li> </ul>
Value of Project:	R 250 000
Location:	Mokopane, Limpopo Province
Project duration & year:	March 2016, 6 months
Client:	Anglo American Platinum – Rustenburg Platinum Mines Limited: Rustenburg Section – Mogalakwena Mine
Name of Project:	Mogalakwena Mine: Environmental Authorisation Amendment
Project Description:	Amendment of Mogalakwena Mine's approved Environmental Authorisation for the inclusion of an additional pebble storage area, through the undertaking of a NEMA EIA Regulation 29 amendment process
Job Title and Duties:	Senior Environmental Scientist - Project Manager & EAP <ul style="list-style-type: none"> <li>• Project coordination and management</li> <li>• Compilation of technical environmental documents, programmes and reports</li> </ul>
Value of Project:	R 135 000
Location:	Mokopane, Limpopo Province
Project duration & year:	April 2016
Client:	Anglo American Platinum – Rustenburg Platinum Mines Limited: Rustenburg Section – Mogalakwena Mine
Name of Project:	Mogalakwena Mine: Environmental Authorisation Amendment
Project Description:	Amendment of Mogalakwena Mine's approved Environmental Authorisation in respect of prospecting rights acquired, through the undertaking of a NEMA EIA Regulation 31 amendment process
Job Title and Duties:	Senior Environmental Scientist - Project Manager & EAP <ul style="list-style-type: none"> <li>• Project coordination and management</li> <li>• Compilation of technical environmental documents, programmes and reports</li> </ul>
Value of Project:	R 345 000

# Selma Nel

## Principal Scientist

### Key Experience: Project management: impact assessment projects

Location: Mokopane, Limpopo Province  
 Project duration & year: June 2015  
 Client: Anglo American Platinum – Rustenburg Platinum Mines Limited:  
 Rustenburg Section – Mogalakwena Mine  
 Name of Project: Tailings Scavenger Plant  
 Project Description: The authorisation of a new Tailings Scavenger Plant in terms of NEMA and MPRDA  
 Job Title and Duties: Senior Environmental Scientist – Project Manager

- Project coordination and management
- Compilation of technical environmental documents, programmes and reports
- Coordinate and facilitate public participation activities
- Client liaison
- Authority consultation

Value of Project: R 270 000

Location: Rustenburg, North West Province  
 Project duration & year: June 2014  
 Client: Anglo American Platinum – Rustenburg Platinum Mines: Rustenburg Section  
 Name of Project: Domestic Waste Recycling Facility  
 Project Description: The licensing of the new Domestic Waste Recycling Facility for the sorting and recycling of general waste in terms of NEM: WA  
 Job Title and Duties: Senior Environmental Scientist – Project Manager

- Project coordination and management
- Compilation of technical environmental documents, programmes and reports
- Coordinate and facilitate public participation activities
- Authority consultation
- Client liaison

Value of Project: R 200 000

Location: Mokopane, Limpopo Province  
 Project duration & year: March 2014  
 Client: Anglo American Platinum – Mogalakwena Platinum Mine  
 Name of Project: Blinkwater Tailings Storage Facility Extension and Attenuation Dam  
 Project Description: EMP Amendment to include the extension of the Blinkwater Tailings Storage Facility as well as the construction and operation of a new attenuation dam  
 Job Title and Duties: Senior Environmental Scientist – Project Manager

- Project coordination and management of integrated environmental impact assessment
- Coordination and management of multi-disciplinary specialists
- Coordinate public participation activities
- Compilation of technical environmental documents, programmes and reports
- Authority consultation
- Client liaison

Value of Project: R 4 150 000

# Selma Nel

## Principal Scientist

### Key Experience: Project management: impact assessment projects

Location: Mokopane, Limpopo Province  
 Project duration & year: January 2014  
 Client: Anglo American Platinum – Mogalakwena Platinum Mine  
 Name of Project: Environmental Impact Assessment for the infill drilling operation on the farms Drenthe and Witrivier including a waste rock dump on the farm Witrivier  
 Project Description: Section 102 Application and EMPr Amendment to include the farms Drenthe and Witrivier into the Mining Right as well as the construction and operation of a new waste rock dump  
 Job Title and Duties: Senior Environmental Scientist – Project Manager

- Project coordination and management of integrated environmental impact assessment
- Coordination and management of multi-disciplinary specialists
- Coordinate public participation activities
- Compilation of technical environmental documents, programmes and reports
- Authority consultation
- Client liaison

Value of Project: R 3 900 000

Location: Mokopane, Limpopo Province  
 Project duration & year: October 2013  
 Client: Anglo American Platinum – Mogalakwena Platinum Mine  
 Name of Project: Mogalakwena Platinum Mine's Environmental Management Programmes (EMPrs) Consolidation and Alignment  
 Project Description: Consolidation and alignment of the Mogalakwena Platinum Mine's EMPrs  
 Job Title and Duties: Senior Environmental Scientist – Project Manager

- Project coordination and management
- Environmental compliance audit in terms of NEMA, MPRDA, NEM:WA and NWA
- Compilation of technical environmental documents, programmes and reports;
- Authority consultation
- Client liaison

Value of Project: R 4 200 000

# Selma Nel

## Principal Scientist

### **Key Experience: Project management: impact assessment projects**

Location: Rustenburg, North West Province  
 Project duration & year: May 2013  
 Client: Anglo American Platinum – Rustenburg Platinum Mine: Kwezi & K6 Operations  
 Name of Project: Addendum to Anglo American Platinum’s Rustenburg Platinum Mine’s EMP – to include additional ventilation shafts at the Kwezi and K6 Shaft Operations  
 Project Description: Addendum to the Rustenburg Platinum Mine’s EMP to include the construction and operation of additional ventilation shafts at the Kwezi and K6 Shaft Operations  
 Job Title and Duties: Senior Environmental Scientist – Project Manager

- Project coordination and management
- Compilation of technical environmental documents, programmes and reports;
- Coordination and management of multi-disciplinary specialists
- Coordinate and facilitate public participation activities
- Authority consultation
- Client liaison

Value of Project: R 175 000

Location: Hattingspruit, KwaZulu Natal  
 Project duration & year: October 2009  
 Client: Shanduka Coal  
 Name of Project: Springlake Colliery  
 Project Description: Environmental Risk Assessment  
 Job Title and Duties: Environmental Project Manager

- Project coordination and management
- Compilation of technical environmental documents, programmes and reports;
- Coordination and management of multi-disciplinary specialists
- Authority consultation
- Client liaison

Value of Project: R 350 000

Location: Hattingspruit, KwaZulu Natal  
 Project duration & year: October 2009  
 Client: Shanduka Coal  
 Name of Project: Springlake Colliery  
 Project Description: Environmental Impact Assessment and Environmental Management Programme for additional conveyors and ventilation shafts  
 Job Title and Duties: Environmental Project Manager

- Project coordination and management of integrated environmental impact assessments
- Coordination and management of multi-disciplinary specialists
- Compilation of technical environmental documents, programmes and reports
- Coordinate and facilitate public participation activities
- Authority consultation
- Client liaison

Value of Project: R 980 000

# Selma Nel

## Principal Scientist

### Key Experience: Project management: impact assessment projects

Location: Black Rock, Northern Cape  
Project duration & year: April 2009  
Client: Eskom & Assmang Limited: Black Rock Mine  
Name of Project: Construction of a 132kV Power line for the Black Rock Mine  
Project Description: Environmental Impact Assessment and Environmental Management Programme for the construction of a 132kV Power line for the Black Rock Mine  
Job Title and Duties: Environmental Scientist - Project Manager

- Project coordination and management
- Site selection assessment input
- Coordination and management of multi-disciplinary specialists
- Coordinate and facilitate public participation activities
- Compilation of technical environmental documents, programmes and reports;
- Authority consultation
- Client liaison

Value of Project: R 1 200 000

Location: Kendal, Mpumalanga  
Project duration & year: February 2009  
Client: Shanduka Coal  
Name of Project: Lakeside and Leeuwfontein Colliery  
Project Description: Environmental Impact Assessment and Environmental Management Programme for new opencast mining operations at Lakeside and Leeuwfontein Colliery  
Job Title and Duties: Environmental Project Manager

- Project coordination and management
- Coordination and management of multi-disciplinary specialists
- Coordinate and facilitate public participation activities
- Compilation of technical environmental documents, programmes and reports;
- Authority consultation
- Client liaison

Value of Project: R 1 200 000



# Selma Nel

## Principal Scientist

### Key Experience: Project management: impact assessment projects

Location: Middelburg, Mpumalanga  
 Project duration & year: February 2009  
 Client: Shanduka Coal  
 Name of Project: Middelburg Townlands Colliery  
 Project Description: Environmental Impact Assessment and Environmental Management Programme for new opencast mining operation at Middelburg Townlands Colliery  
 Job Title and Duties: Environmental Project Manager

- Project coordination and management
- Coordination and management of multi-disciplinary specialists
- Coordinate and facilitate public participation activities
- Compilation of technical environmental documents, programmes and reports;
- Authority consultation
- Client liaison

Value of Project: R 1 500 000

Location: Middelburg, Mpumalanga  
 Project duration & year: March 2008  
 Client: Londani Coal  
 Name of Project: Nndanganeni Colliery  
 Project Description: Environmental Impact Assessment and Environmental Management Programme for the new Nndanganeni Colliery  
 Job Title and Duties: Environmental Scientist - Project Manager

- Project coordination and management
- Coordination and management of multi-disciplinary specialists
- Coordinate and facilitate public participation activities
- Compilation of technical environmental documents, programmes and reports;
- Authority consultation
- Client liaison

Value of Project: R 1 200 000

Location: Delmas, Mpumalanga  
 Project duration & year: November 2007  
 Client: Umthombo Resources  
 Name of Project: Schoongezicht Colliery  
 Project Description: Environmental Impact Assessment and Environmental Management Programme for the new Schoongezicht Colliery  
 Job Title and Duties: Environmental Scientist - Project Manager

- Project coordination and management
- Compilation of technical environmental documents, programmes and reports;
- Coordination and management of multi-disciplinary specialists
- Coordinate and facilitate public participation activities
- Authority consultation
- Client liaison

Value of Project: R 950 000

## Selma Nel

### Principal Scientist

#### **Key Experience: Project manager: Gap analysis projects**

Location: Zimbabwe  
 Project duration & year: April – May 2019  
 Client: Prospect Lithium Zimbabwe (Pvt) Limited  
 Name of Project: Gap Analysis of Environmental & Social Impact Assessments for Arcadia Lithium Mining Project in Zimbabwe  
 Project Description: Reviewed of the Zimbabwean ESIA's to determine level of information to meet the required international standards  
 Compiled Gap Analysis Report including an action plan outlining the way forward to address any identified gaps in meeting international environmental and social requirement.  
 Job Title and Duties: Principal Scientist – Project Manager  
 • ESIA's review  
 • Compilation of Gap Analysis Report including action plan  
 • Client liaison  
 Value of Project: R 90 000

Location: Steelpoort, Limpopo  
 Project duration & year: August – October 2017  
 Client: Anglo American Platinum – Rustenburg Platinum Mines: Der Brochen Section  
 Name of Project: Gap Analysis for environmental authorisation of proposed Der Brochen Expansion Project  
 Project Description: Review of proposed project against South African legislation to determine level and number of authorisations required and preliminary authorisation timeframes.  
 Conduct key specialist studies to determine areas of concern in terms of the placement of proposed project related infrastructure and activities.  
 Job Title and Duties: Senior Scientist – Project Manager  
 • Specialist coordinating  
 • Compilation of technical report including sensitivity maps  
 • Client liaison  
 Value of Project: R 380 000

#### **Key Experience: Project manager: Gap analysis projects**

Location: Kriel, Mpumalanga  
 Project duration & year: March 2013  
 Client: Eskom  
 Name of Project: Kriel and Matla Power Stations Integrated Water and Waste Management Programmes  
 Project Description: Compilation of Kriel and Matla Power Stations Integrated Water and Waste Management Programmes in accordance with the National Water Act, Act 36 of 1998, requirements.  
 Job Title and Duties: Environmental Scientist – Project Coordinator and Assisting Project Manager  
 • Environmental and Water Site Assessor and Advisor  
 • Compilation of technical programmes  
 • Client liaison  
 Value of Project: R 380 000

## Selma Nel

### Principal Scientist

- Key Experience: Project manager: Gap analysis projects**
- Location: Marikana, North West  
 Project duration & year: January 2011  
 Client: Aquarius Platinum South Africa  
 Name of Project: Environmental Authorisation for the Marikana Open Pit Rehabilitation and Surface Tailings Storage Facility  
 Project Description: Environmental Impact Assessment and Environmental Management Programme for the Marikana Open Pit Rehabilitation and Surface Tailings Storage Facility  
 Job Title and Duties: Environmental Scientist – assisting project manager
- Coordination and management of multi-disciplinary specialists
  - Site selection assessment input
  - Coordinate and facilitate public participation activities
  - Compilation of technical environmental documents, programmes and reports
  - Authority consultation
  - Client liaison
- Value of Project: R 5 000 000
- Location: Mafikeng, Limpopo  
 Project duration & year: June 2008  
 Client: Bigen Africa  
 Name of Project: Maandagshoek Road Upgrade  
 Project Description: Environmental Impact Assessment and Environmental Management Programme for the Maandagshoek Road Upgrade  
 Job Title and Duties: Environmental Scientist – assisting project manager
- Project coordination and management
  - Authority consultation
  - Client liaison
  - Compilation of technical environmental documents, programmes and reports
- Value of Project: R 350 000
- Location: Mokopane, Limpopo  
 Project duration & year: February 2008  
 Client: Londmin Akanani Platinum Mine  
 Name of Project: Lonmin Akanani Platinum Mine – Mine Facilities Site Selection  
 Project Description: Site Selection for Mine Facilities  
 Job Title and Duties: Environmental Scientist
- Coordination and management of multi-disciplinary specialists
  - Site selection assessment
  - Compilation of technical environmental documents, programmes and reports
  - Client liaison
- Value of Project: R 280 000

# Selma Nel

## Principal Scientist

### Key Experience: Environmental advisory projects

Location: Lebowakgomo, Limpopo  
 Project duration & year: January 2018, 3 months  
 Client: DRA Global  
 Name of Project: Baobab Mine Pilot Crusher Plant Environmental Protection and Response Plan  
 Project Description: Development of the construction phase's Environmental Protection and Response Plan in respect of Baobab Mine Pilot Crusher Plant  
 Job Title and Duties: Senior Environmental Scientist – Project Manager
 

- Compilation of an Environmental Protection and Response Plan

 Value of Project: R 380 000

Location: Steelpoort, Limpopo  
 Project duration & year: 2016-2017  
 Client: Anglo American Platinum: Der Brochen Mine  
 Name of Project: Execution of the approved Der Brochen Project EMPr  
 Project Description: Providing environmental advice in terms of the execution of the approved Der Brochen Project EMPr, with specific reference to the tailings storage facility  
 Job Title and Duties: Environmental Advisor and Environmental Control Officer
 

- Compilation of environmental and social execution procedures
- Conducting site inspections and environmental audits against EMPr

 Value of Project: n/a

Location: Mokopane, Limpopo  
 Project duration & year: 2016-2017  
 Client: Anglo American Platinum – Mogalakwena Platinum Mine  
 Name of Project: Blinkwater Tailings Storage Facility Expansion  
 Project Description: Pre-feasibility assessment of the proposed Blinkwater Tailings Storage Facility Expansion Project  
 Job Title and Duties: Senior Environmental Scientist – Environmental Advisor
 

- Technical review of project against current environmental related legislation
- Compilation of technical environmental documents

 Value of Project: n/a

Location: Johannesburg, Gauteng  
 Project duration & year: October 2016  
 Client: Amalgamated Beverage Industries  
 Name of Project: Community Water Initiatives towards the aid of the Water Crisis  
 Project Description: Identify and develop implementation plan for community water initiatives in aid of the water crisis  
 Job Title and Duties: Senior Environmental Scientist – Environmental Advisor
 

- Identify and develop community initiatives implementation plan
- Trade off study inputs
- Compilation of technical environmental documents
- Client liaison

 Value of Project: n/a

## Selma Nel

### Principal Scientist

#### **Key Experience: Environmental advisory projects**

Location: Richards Bay, KwaZulu Natal Province  
 Project duration & year: August 2015  
 Client: Elegant Line Chemicals (Pty) Ltd  
 Name of Project: Pre-feasibility assessment of a proposed Chlor-alkali Plant  
 Project Description: Chlor-alkali Plant Pre-feasibility Study and guidelines for preparation of Feasibility Study  
 Job Title and Duties: Senior Environmental Scientist – Environmental Advisor

- Technical review of project against current environmental related legislation
- Compilation of technical environmental documents

Value of Project: n/a

#### **Key Experience: Audits, ECO and due diligence projects**

Location: Hitosa, Ethiopia  
 Project duration & year: December 2020 - Current  
 Client: Tulu Moye Geothermal Operations PLC  
 Name of Project: TMGO Environmental and Social Audit  
 Project Description: Environmental and Social audit in respect of TMGO's E&S Management Plan and international standards  
 Job Title and Duties: Lead Environmental Auditor

- Coordination with in-country consultants
- Client liaison
- Compilation of audit report

Value of Project: R 780 000

Location: Steelpoort, Limpopo  
 Project duration & year: June 2017 - Current  
 Client: Anglo American Platinum – Der Brochen Project  
 Name of Project: Mareesburg Tailings Storage Facility  
 Project Description: Execution of the Mareesburg Tailings Storage Facility  
 Job Title and Duties: Senior Environmental Scientist

- Environmental Control Officer during construction phase
- Compilation of ECO compliance report

Value of Project: R 280 000

Location: Mokopane, Limpopo  
 Project duration & year: July 2014, Sept 2015, Nov 2016, Oct 2017 & Nov 2018  
 Client: Anglo American Platinum – Mogalakwena Mine  
 Name of Project: Annual External Performance Assessment on Mogalakwena Mine's EMPr's  
 Project Description: External EMPr Performance and Compliance assessment of Mogalakwena Mine  
 Job Title and Duties: Senior Environmental Scientist - Lead Auditor

- Project coordination and management
- Compilation of audit report
- Environmental compliance audit in terms of NEMA, MPRDA and NEM:WA
- Training and mentoring

Value of Project: R 200 000

# Selma Nel

## Principal Scientist

### Key Experience: Audits, ECO and due diligence projects

Location: Middelburg, Mpumalanga  
Project duration & year: May 2016  
Client: Clewer Sand and Stone Quarry  
Name of Project: EMPr Compliance Audit of Clewer Sand and Stone Quarry  
Project Description: EMPr Compliance Audit of Clewer Sand and Stone Quarry as part of the quarry's mining right renewal process  
Job Title and Duties: Environmental Scientist – Lead Auditor

- Compliance audit in terms of the NWA
- Compilation of report on audit findings

Value of Project: R 128 000

Location: Phalaborwa, Limpopo  
Project duration & year: May 2012  
Client: Rio Tinto  
Name of Project: Palabora Mining Company - Water Use License Compliance Audit  
Project Description: Water Use License Compliance Audit  
Job Title and Duties: Environmental Scientist – Assisting Auditor

- Project coordination and management
- Environmental compliance audit in terms of MPRDA
- Compilation of report on audit findings

Value of Project: R 128 000

Location: Rustenburg, North West  
Project duration & year: February 2012  
Client: Royal Bafokeng Platinum  
Name of Project: Styldrift & Frischgewaagd Mines - Prospecting EMPs Compliance Audit  
Project Description: External Prospecting Right EMPs Compliance Audit  
Job Title and Duties: Environmental Scientist - Lead Auditor

- Project coordination and management
- Environmental compliance audit in terms of MPRDA
- Training and mentoring

Value of Project: R 280 000

Location: Kroondal, North West  
Project duration & year: October 2011  
Client: Aquarius Platinum South Africa  
Name of Project: Kroondal and K5 Water Use License Audit  
Project Description: Water Use License Compliance Audit  
Job Title and Duties: Environmental Scientist - Assisting Auditor

- Compliance audit in terms of the NWA
- Compilation of report on audit findings

Value of Project: R 400 000

## Selma Nel

### Principal Scientist

#### **Key Experience: Audits, ECO and due diligence projects**

Location: Roosenekal, Mpumalanga Province  
 Project duration & year: July 2011  
 Client: Aquarius Platinum South Africa  
 Name of Project: Walhalla and Chieftains Plain –Prospecting EMPr audit and consolidation under MPRDA  
 Project Description: Amendment of Prospecting EMP under MPRDA  
 Job Title and Duties: Environmental Scientist – Project Coordinator

- Project coordination and management
- Environmental compliance audit in terms of MPRDA
- Compilation of technical environmental documents, programmes and reports;
- Coordinate and facilitate public participation activities
- Client liaison

Value of Project: R 350 000

Location: Lydenburg & Delmas (Mpumalanga) & Bronkhortspruit (Gauteng)  
 Project duration & year: November 2010  
 Client: Aquarius Platinum South Africa  
 Name of Project: AQPSA Prospecting EMPs Compliance Audit  
 Project Description: External Prospecting Right EMPs Compliance Audit  
 Job Title and Duties: Environmental Scientist - Auditor

- Project coordination and management
- Environmental compliance audit in terms of MPRDA
- Compilation of report on audit findings

Value of Project: R 400 000

Location: Cairo, Egypt, Africa  
 Project duration & year: February 2010  
 Client: Cadbury Africa  
 Name of Project: Cadbury Africa: Health, Safety and Environmental Audit  
 Project Description: Health, Safety and Environmental Audit  
 Job Title and Duties: Environmental Scientist – Assisting Auditor

- Compliance audit in terms company procedures, international standards and relevant legislation
- Compilation of report on audit findings

Value of Project: R 600 000

Location: Tanzania, Africa  
 Project duration & year: January 2010  
 Client: RSK  
 Name of Project: ETANA BP Environmental Site Assessment and Vendor Due Diligence  
 Project Description: Environmental Site Assessment and Vendor Due Diligence  
 Job Title and Duties: Environmental Scientist

- Project coordination and management
- Compilation of technical environmental documents and reports;
- Client liaison

Value of Project: R 3 800 000

# Selma Nel

## Principal Scientist

### Key Experience: Bio-monitoring projects

Location: Steelpoort, Mpumalanga  
 Project duration & year: Since July 2017  
 Client: Anglo American Platinum: Twickenham Mine  
 Name of Project: Twickenham Mine: Bio-monitoring and Toxicity monitoring programme  
 Project Description: Biannual Bio-monitoring and toxicity sampling in and around the Twickenham Mine Complex (Motse & Moopetsi Rivers)  
 Job Title and Duties: SASS Practitioner – Project manager

- Project coordination and management
- Bio-monitoring
  - Training and mentoring
  - Conducting aquatic invertebrate and habitat assessment surveys
  - Conducting aquatic invertebrate, habitat assessment and toxicity surveys
- Compilation of report on findings

Value of Project: R 120 000

Project duration & year: Since February 2013  
 Client: Sonae Novoboard  
 Name of Project: Sonae Novoboard: Bio-monitoring  
 Project Description: Biannual Bio-monitoring (Tributary of the Sand River)  
 Job Title and Duties: SASS Practitioner – Project manager

- Project coordination and management
- Bio-monitoring
  - Training and mentoring
  - Conducting aquatic invertebrate and habitat assessment surveys
  - Conducting aquatic invertebrate, habitat assessment and toxicity surveys
- Compilation of report on findings

Value of Project: R 120 000

Location: Steelpoort, Limpopo  
 Project duration & year: Since July 2011  
 Client: Impala Platinum's Marula Mine  
 Name of Project: Marula Platinum Mine's: Bio-monitoring  
 Project Description: Biannual Bio-monitoring (Moopetse & Tshwenyane Rivers)  
 Job Title and Duties: SASS Practitioner – Project manager

- Project coordination and management
- Bio-monitoring
  - Training and mentoring
  - Conducting aquatic invertebrate and habitat assessment surveys
  - Conducting aquatic invertebrate, habitat assessment and toxicity surveys
- Compilation of report on findings

Value of Project: R 140 000



# Selma Nel

## Principal Scientist

### Key Experience: Bio-monitoring projects

Location: Bethal, Mpumalanga  
 Project duration & year: June 2009 till Oct 2010  
 Client: Total Coal  
 Name of Project: Total Coal Springbok Siding: Bio-monitoring  
 Project Description: Biannual Bio-monitoring (Tributaries of the Olifants River)  
 Job Title and Duties: SASS Practitioner – Project manager

- Project coordination and management
- Bio-monitoring
  - Training and mentoring
  - Conducting aquatic invertebrate and habitat assessment surveys
  - Conducting aquatic invertebrate, habitat assessment and toxicity surveys
- Compilation of report on findings

Value of Project: R 62 000

Location: Bethal, Mpumalanga  
 Project duration & year: June 2009 till Oct 2010  
 Client: Total Coal  
 Name of Project: Total Coal Forzando Coal Mine: Olifants River Bio-monitoring  
 Project Description: Biannual Bio-monitoring (Olifants River and tributaries)  
 Job Title and Duties: SASS Practitioner – Project manager

- Project coordination and management
- Bio-monitoring
  - Training and mentoring
  - Conducting aquatic invertebrate and habitat assessment surveys
  - Conducting aquatic invertebrate, habitat assessment and toxicity surveys
- Compilation of report on findings

Value of Project: R 62 000

Location: Kriel, Mpumalanga  
 Project duration & year: June 2009 till Oct 2010  
 Client: Total Coal  
 Name of Project: Total Coal Dorstfontein East Coal Mine: Olifants River Bio-monitoring  
 Project Description: Biannual Bio-monitoring  
 Job Title and Duties: SASS Practitioner – Project manager

- Project coordination and management
- Bio-monitoring
  - Training and mentoring
  - Conducting aquatic invertebrate and habitat assessment surveys
  - Conducting aquatic invertebrate, habitat assessment and toxicity surveys
- Compilation of report on findings

Value of Project: R 62 000

# Selma Nel

## Principal Scientist

### Key Experience: Bio-monitoring projects

Location: Mtubatuba, Kwa-Zulu Natal  
Project duration & year: December 2009  
Client: Tendele Coal  
Name of Project: Teldele Somkele Mine: Bio-monitoring - Umfolozi, Kwaluhlanga and Nkolokotho Rivers.  
Project Description: Biannual Bio-monitoring  
Job Title and Duties: SASS Practitioner – Project manager

- Project coordination and management
- Bio-monitoring
  - Conducting aquatic invertebrate and habitat assessment surveys
  - Conducting aquatic invertebrate, habitat assessment and toxicity surveys
- Compilation of report on findings

Value of Project: R 52 000

Location: Pilgrims Rest, Limpopo  
Project duration & year: February 2009  
Client: Assmang  
Name of Project: Assmang Dwars River Chrome Mine: Groot Dwars River Bio-monitoring  
Project Description: Summer Survey Bio-monitoring Blyde River  
Job Title and Duties: SASS Practitioner Specialist

- Project coordination and management
- Bio-monitoring
  - Conducting aquatic invertebrate and habitat assessment surveys
  - Conducting aquatic invertebrate, habitat assessment and toxicity surveys
- Compilation of report on findings

Value of Project: R 20 000

13/12/2019

**CERTIFIED A TRUE COPY  
OF THE ORIGINAL**



**Die Raad en Senaat van die  
RANDSE AFRIKAANSE UNIVERSITEIT  
verklaar hiermee dat die graad**

**The Council and the Senate of the  
RAND AFRIKAANS UNIVERSITY  
hereby certify that the degree**

## **BACCALAUREUS ARTIUM**

met studierigting      with field of study

### **Geografie en Omgewingsbestuur Geography and Environmental Studies**

met al die regte en voorregte daaraan  
verbonde kragtens die Statuut van die  
Universiteit toegeken is aan

with all its associated rights and privileges  
in accordance with the Statute of the  
University has been awarded to

## **SELMA ROODE**

by geleentheid van 'n kongregasie  
van die Universiteit

at a congregation of the  
University

Rektor/Rector

Viserektor (Navorsing en Akademiese Bestuur)  
Vice-Rector (Research and Academic Management)

19 APRIL/APRIL 2004  
Johannesburg  
ID 8010110014082



 13/12/2019

**CERTIFIED A TRUE COPY  
OF THE ORIGINAL**



**Die Raad en Senaat van die  
RANDSE AFRIKAANSE UNIVERSITEIT  
verklaar hiermee dat die graad**

**The Council and the Senate of the  
RAND AFRIKAANS UNIVERSITY  
hereby certify that the degree**

**BACCALAUREUS ARTIUM CUM HONORIBUS**

met studierigting      with field of study

**Geografie en Omgewingsbestuur  
Geography and Environmental Management**

met al die regte en voorregte daaraan  
verbonde kragtens die Statuut van die  
Universiteit toegeken is aan

with all its associated rights and privileges  
in accordance with the Statute of the  
University has been awarded to

**SELMA ROODE**

by geleentheid van 'n kongregasie  
van die Universiteit

at a congregation of the  
University



**Rektor/Rector**



**Viserektor: Navorsing en Akademiese Bestuur  
Vice-Rector: Research and Academic Management**

**10 DESEMBER/DECEMBER 2004  
Johannesburg  
ID 8010110014082**





**RITESH DHRONEY**  
Commissioner of Oaths  
HR Professional (HRA)  
Member number: 11128  
14 Klaar Street  
Midrand  
1085

*[Signature]* 13/2/2019

**CERTIFIED A TRUE COPY  
OF THE ORIGINAL**



**UNIVERSITY  
OF  
JOHANNESBURG**

The Council and the Senate of the  
UNIVERSITY OF JOHANNESBURG  
hereby certify that the degree

**MAGISTER ARTIUM**

with field of study

**Environmental Management**

with all its associated rights and privileges  
in accordance with the Statute of the  
University has been awarded to

**SELMA NEL**

at a congregation of the University

*[Signature]*

Vice-Chancellor

*[Signature]*

Registrar

06 MARCH 2008  
Johannesburg  
ID 8010110014082



23984