

APPENDIX 1

EAP CURRICULUM VITAE

CURRICULUM VITAE of AMANDA FRITZ-WHYTE

ENVIRONMENTAL SCIENTIST & GEOLOGIST

1. PERSONAL DETAILS

Born: 17th July 1974
Nationality: South African
Drivers License: Code EB
Languages: Proficient in English and Afrikaans

2. KEY COMPETENCIES

After completing a BSc Honors degree in geology and two years of mining geology experience, I was nominated onto the AngloGold Ltd Young Highflyer Program. Whilst on the program I was exposed to environmental management and was provided the opportunity to develop myself in that field of interest. I now hold a Master of Science degree in Water Resource Management and more than 23 years of environmental management experience.

During my career to date, I have accumulated experience in the following key areas:

Competencies	Key Experience
1. Water Management	<ul style="list-style-type: none">• MSc in Water Resource Management (distinctions in two subjects)• Environmental Coordinator: Water (AngloGold Ashanti)• Water Use License Applications, General Authorizations and Existing Lawful Use verifications and registrations• Compilation of water management strategies/ plans for both the KOSH & West Wits areas• Management of wastewater treatment plant at Toyota SA Manufacturing• Wastewater management and pollution prevention (industrial)• Inter-basin pumping schemes (flood prevention) in mining (KOSH & West Wits area).• Industrial pollution control (planning, design & implementation)• Water management plan for OR Tambo airport• WSI and brine disposal authorisations

	<ul style="list-style-type: none"> • Water Tribunal Appeals • Existing Lawful Use determinations and V&V for various landowners (Western Cape)
2. Environmental Monitoring Programs	<ul style="list-style-type: none"> • Groundwater monitoring program for Toyota SA • EMP's for Coastal Disaster Rehabilitation projects and various construction projects • Maintenance Management plans (dams in Western Cape)
3. Environmental Management Systems	<ul style="list-style-type: none"> • Assistant in implementation of electronic EMS at AngloGold Ashanti operations • Implementation & Management of EMS for various plants at Toyota SA Manufacturing (Durban)
4. Environmental Assessments	<ul style="list-style-type: none"> • Risk Assessments conducted for large scale capital projects at AngloGold Ashanti • Basic Assessments for Coastal Disaster Rehabilitation projects (KZN) and construction projects (Western Cape and KZN) including Public Participation per project • S21(c) and (i) risk matrix assessments for determining impacts under the NWA • EIA for Mining Right expansion (Steyn's Quarry, Botrivier) • Risk assessment as part of Water Use License applications (Shoprite, PEPKOR, Caledon Mixed use development, Ackermans, Transnet)
5. Environmental Auditing	<ul style="list-style-type: none"> • Lead Auditor Toyota SA • NEMA compliance audits for mining • ECO for various construction projects • Water Use License audits (Shoprite Checkers (Pty) Ltd, Elgin Free Range Chickens & PEPKOR)
6. Geology	<ul style="list-style-type: none"> • BSc Honors degree (Geology, Biochemistry) • Two years underground mining geology experience • 4 years diamond evaluation and certification experience
7. Energy & Emissions	<ul style="list-style-type: none"> • Compilation of CO₂ inventory for Toyota SA

8. Capital Project Management	<ul style="list-style-type: none"> • Wastewater plant upgrade for Toyota SA
9. Training	<ul style="list-style-type: none"> • Training to middle management at Toyota SA Manufacturing on HSE course • Mentorship to Archaeology student Anja Huisamen (2017-2018) • Guest lecturer on Water Management Course (hosted by DWS) • Mentorship Candidate EAP

3. TERTIARY EDUCATION

3.1 Master of Science in Water Resource Management

Year/s of study: 2005 - 2006

Institution: University of Pretoria

Course Modules: Strategic Environmental Management
Water, Sanitation and Treatment
Water Quality Management
Water Conservation & Demand Management
Environmental Analysis, Assessment & Modeling
Environmental Paradigms
Environmental Governance

Thesis: ***Towards finding a solution to the KOSH inter-mine water management problems.*** (Refer to Section 4.5 for details).

3.2 Bachelor of Science Honours in Geology

Year/s of study: 1997 - 1998

Institution: University of Port Elizabeth

Subjects: Igneous petrology, Sedimentology, Structural Geology, Oceanography

Thesis: Structural geology formations on a farm near Steytlerville (Cape Fold Belt)

3.3 Bachelor of Science

Year/s of study: 1993 - 1996

Institution: University of Port Elizabeth

Major subjects: Geology, Biochemistry

Other subjects: Mathematics 1, Botany 1 & 2, Chemistry 1 & 2, Physics 1

4. EMPLOYMENT RECORD

4.1 Current

Designation: Environmental Assessment Practitioner

Period: May 2016 to current

Key responsibilities: Conduct EIA's, Basic Assessments, Setback Line applications, Water Use Authorizations, General Authorizations, S24G applications, Water Services Intermediary and Brine disposal authorizations, Mining Permit and License applications, S102 applications (including public participation requirements for all the listed processes as needed according to stipulations in NEMA). NEMA compliance audits, water audits, ECO work, social and labour plan compilations. S21(c) and (i) risk matrix assessments for determining impacts under the NWA, environmental awareness plans, EMP's, Alien invasive management plans, mining plans and Maintenance Management Plans. Public Participation is conducted as part of BAR, EIA and WULA processes. ELU and V&V determinations, Water Tribunal appeals.

4.2 Freelance/ Self-employed

Designation: Geologist/ Environmental consultant

Period: July 2011 to April 2016

Key responsibilities: Conducted all environmental work (comment on EMP's, comment on new legislation, submission to NWRMS parliamentary sub-committee, submissions to legal advisors and other NGO's) for TKAG.

Lobby Minister Anton Bredell for the establishment of the CoCT sludge to land application monitoring committee for Melkbosstrand / Philidelphia area.

Oversee BAR for Melkbosstrand High School Sports Fields and completed ECO work.

Geological work: Gemological work (evaluation and certification) of diamonds for clients. Registration process

for Diamond Regulator and Mining Right Conversion from Old Order Mining Right.

Prospecting work on site for diamond bearing gravels.

Reason for leaving: Moved back into full time formal employment sector

4.3 Enspire Environmental

Designation: Director

Period: June 2010 to July 2011

Key responsibilities: Manage all aspects of business for the KZN South Coast region: BAR's; EIA's; WULA's; S30 applications; S24G applications; waste management; auditing; ECO work, water management, preparation and submission of tender documents for large local government projects. Public Participation is conducted as part of BAR, EIA and WULA processes.

Reason for leaving: Relocated from KZN to Cape Town and resigned as Director of company

4.4 SSI Environmental

Designation: Associate

Period: March 2008 to May 2010

Key responsibilities: Develop client relations and deliver service to clients on the Kwa-Zulu Natal South Coast in the following areas:

BAR's; EIA's; WULA's; S30 applications; S24G applications; waste management; auditing; ECO work, water management, preparation and submission of tender documents for large local government projects in KZN and Nelson Mandela Metro. Green city competition coordinator on behalf of NMM.

Office manager: Business development, management of staff, budget reporting.

Compilation of water management plan and strategy for OR Tambo Airport.

Public Participation is conducted as part of BAR, EIA and WULA processes.

Reason for leaving: Had to downscale on amount of travelling due to the birth of my son.

4.5 Toyota South Africa Manufacturing (Durban)

Designation: Environmental Manager

Period: January 2006 to February 2008

Key responsibilities: Implement, maintain and audit EMS for various plants making up the Toyota SA manufacturing operations. Responsible for water management on site – effluent treatment plants, resource measurement, recycling opportunities and reduction in usage.

Implementation of anti-pollution measures on site (moving pipelines overhead, interception trenches and containment pits).

Reporting environmental performance to top management.

Budget compilation and tracking.

HSE advisor to new Warehouse Project. CMA representation on behalf of TSAM.

Reason for leaving: Head hunted by consulting firm

4.1 AngloGold Ashanti: Environmental Management Department

Designation: Environmental Coordinator: Water

Period: November 2001 to December 2005

Throughout this period, I was involved in the following key projects:

Project / Technical Area	Personal Involvement
Water management strategy addressing mine dewatering in the KOSH area This project involved developing a water management strategy to address the risk of deep-level gold mines in the Klerksdorp, Orkney, Stilfontein, Hartebeesfontein (KOSH) area flooding should neighbouring mines cease dewatering operations	<ul style="list-style-type: none">• Compiled and interpreted historical data relating to fissure water quality, volumes and water balances;• Interpreted the 3D geological mining model for inter-basin water transfer;• Developed flow models;• Generated options for re-use of the fissure water;• Compiled a regional water management strategy for AGA mining area;

	<ul style="list-style-type: none"> • Facilitated KOSH Inter-Mine Forum meetings; • Created awareness with DWAF and DME at national and regional levels in regards the strategy and obtained their process requirements.
<p>Water management strategy to allow for closure of the West Wits area</p> <p>This project involved developing a water management strategy to allow for closure of deep-level gold mines in the West Wits Area.</p>	<ul style="list-style-type: none"> • Investigated pillar stabilities, fissure water sources and water balances; • Identified major environmental liabilities for AngloGold Ashanti and for the area; • Compiled a water management strategy linked to closure plans and the re-watering of underground compartments.
<p>Water Management</p>	<ul style="list-style-type: none"> • Conducted a financial evaluation on the proposed Waste Discharge Charge System (WDCS) and the local council takeover as water services provider; • Facilitated the compilation of catchment models for the Vaal River Area; • Managed the compilation of clean/dirty water assessments on all 25 AngloGold Ashanti SA business units; • Managed the compilation of a groundwater liability report covering AngloGold Ashanti SA Region; • Participated in workshops for Integrated Water Management policy for the Mining Sector on behalf of AGA; • Contributed to water management assessments for closure of Savuka Mine and Domain 3 area. • Represented the company at various fora, including Randwater; FWRDWA Licensing Sub-Committee, Kromdraai Licensing Forum; KOSH Inter-Mine Forum and WISA Mine Water Division. • Compiled water discharge licence application for West Wits Area; • Coordinated studies and funding agreement for Yellowfish genetic research projects; • Compiled the "Water management" section of the Global reporting Initiative for AngloGold Ashanti

	SA; <ul style="list-style-type: none"> Compiled environmental performance assessment reports for WUDL boreholes and extent of compliance reports for three business units.
Environmental Impacts Assessments (EIAs) EIAs were compiled for these two projects in the Vaal River Area: <ul style="list-style-type: none"> Reworking of Rock Dumps (R150M) Re-commissioning of West Pay Dam Tailings Storage Facility (R20M) 	<ul style="list-style-type: none"> Compiling background information for the EIAs; Coordinating consultation meetings with key government departments; Internal review of the draft EIA reports; Ensuring project deadlines and budgets were met.
Emergency Preparedness Planning	<ul style="list-style-type: none"> Assisted with emergency preparedness planning for tailings storage facilities in the West Wits Area.

Reason for leaving: To expand my career experience beyond the mining sector

4.2 AngloGold Limited: Corporate Office

Designation: Executive Assistant to Executive Officer SA Region
(Appointed on AngloGold Ashanti's Highflyer Program)

Period: August 2000 – October 2001

Key responsibilities: I was responsible for the following:

- Sourcing and compiling required information for the Executive of SA Region
- Coordinating and recording SA Exco, Management and Strategic Meetings for Executive
- Compiling the weekly Gold and Safety Report
- Compiling the Business Plan: 2002 for SA Region operations.

Reason for leaving: Completed the Highflyer Program

4.3 AngloGold Limited: Tau Lekoa Mine

Designation: Geologist (Manager in Training)

Period: June 1999 – August 2000

Key responsibilities: I was responsible for the following:

- Assisting the Senior Geologist with structural mapping underground, interpretation and providing an advisory service to the Mining Department.
- Managing own section in regards scheduling of work which included mapping, interpretation and advice;
- Logging of drilling core and interpretation thereof.

Reason for leaving: Selected for Highflyer Program (see above)

4.4 AngloGold Limited: Great Noligwa Mine

Designation: Geologist (Manager in Training)

Period: May 1998 – June 1999

Key responsibilities: I was responsible for the following:

- Assisting the Senior Geologist with structural mapping underground, interpretation and providing an advisory service to the Mining Department.
- Logging of drilling core and interpretation thereof.

Reason for leaving: Career development opportunity within the company.

5. COURSE / CONFERENCE PARTICIPATION

5.1 Short courses completed

Technical skills

- Waste management for Environmental Managers (PUCHO, 2002)
- Water Quality Management (Technikon Pretoria, 2002)
- Water Quality Management for Environmental Managers (PUCHO, 2002)
- Water Quality Monitoring (PUCHO, 2003)
- Introduction to GIS (PUCHO, 2001)
- MS Word, Excel, Access, PowerPoint, Projects, ArcGIS, ArcView, ArcInfo
- Air Quality Modeling (PU, 2007)
- Pump Course (SAIME, 2007)
- Windeed (2008)
- Internal Project Management SSI (Modules: General business principles; General contract principles; Risk Awareness; OHS; Service Quality) (2008)
- Biodiversity Offset training workshop (SANBI, 2018)
- Water Governance (2019)

Environmental processes

- Environmental Risk Assessment (PUCHO, 2001)
- Environmental Impact Assessment (PUCHO, 2001)
- Environmental Law (PUCHO, 2001)
- Environmental Auditing (PUCHO, 2001)
- Issue-based Risk Assessment (ATDS Learning Centre, 2000)
- New EIA Regulations (2006)

Project-management and leadership

- Business Presentation Skills (Maccauvlei Training Centre, 1999)
- Industrial Relations (Maccauvlei Training Centre, 2000)
- Finance for Non-Financial Managers (Maccauvlei Training Centre, 1999)
- Leadership for Middle Managers (Maccauvlei Training Centre, 1999)
- Middle Management (Maccauvlei Training Centre, 1999)
- Emotional Intelligence Course (AngloGold Ashanti, 2004)

Geological

- Diamond Drilling Techniques (ATDS Learning Centre, 1999)
- Rough Diamond Evaluation Course (Harry Oppenheimer Training School, 2011)

6. LIST OF PROJECTS TO DATE

Project Name	Year	Role of EAP
Proposed Riverbank Stabilization Measures to Address Flood Damage at Riverside Park, Umzinto	2009	Review of BAR, EMP, PPP for all aspects of application
KZ 212 MAL 16: Basic Assessment for the Umdoni Storm Damage remediation in Malangeni, Umdoni Local Municipality.	2009	Review of BAR, EMP, PPP for all aspects of application
KZ212Mal17&18: Malangeni Road reconstruction, stormwater controls and gabion protection at stream crossings.	2009	Review of BAR, EMP, PPP for all aspects of application
KZ 212 PR6: Storm damage repairs and upgrades at Park Rynie, Umdoni Municipality	2009	Review of BAR, EMP, PPP for all aspects of application
KZ 212 UMZ 11 and 9: Consolidated Basic Assessment for the Umdoni Storm Damage remediation in Umzinto Main Road & Alexandra Crescent, Umdoni Local Municipality.	2009	Review of BAR, EMP, PPP for all aspects of application
KZ 212PR1& KZ212PR13: Consolidated Basic	2009	Review of BAR, EMP, PPP for all aspects of application

Assessment for Stormwater control and damage repairs in Park Rynie Beachfront Parking and Lotus Park		
Basic Assessment for the 2008 Flood Disaster Project, KZ212 UMZ6 (Esperanza)	2010	Review of BAR, EMP, PPP for all aspects of application
Tidal Surge Rehabilitation work for Northern and Southern Beaches (Hibberdene Main Beach, Umzumbe Main Beach, Pumula, Banana Beach, Sunwich Port Main Beach, South Port Main beach, Umtentweni, Silver Beach, Shelley Beach, Peter Pan Beach, Glenmore and Munster, Palm Beach, Southbroom)	2008	Compilation of application, PPP, all aspects of applications
Hibiscus Coast Tidal Surge port Shepstone: Elizabeth drive Rehabilitation project	2008	Compilation of application, PPP, all aspects of applications
Tidal Surge Rehabilitation of Central Beaches located at St Michael's on Sea, Uvongo, Manaba, Margate and Ramsgate	2008	Compilation of application, PPP, all aspects of applications
Proposed residential Grieg house in Kelso	2008	Compilation of application, PPP, all aspects of application
Basic assessment for the re-development of Marlicht Holiday Resort in Margate,	2010	Compilation of application, PPP, all aspects of application

KwaZulu Natal		
Mbango Sewer Line	2008	Compilation of application, PPP, all aspects of application
Proposed Rehabilitation of Rural Roads within Hibiscus Coast Local Municipality.	2010	Review of BAR, EMP, PPP for all aspects of applications
Ugu District Municipality – Scottburgh Sewage Works Tidal Surge Repairs	2008	Review of BAR, EMP, PPP for all aspects of application
Proposed Removal of Tidal Pool in Southbroom, Hibiscus Coast Local Municipality	2010	Review of BAR, EMP, PPP for all aspects of application
Umdoni Beach Rehabilitation – Phase 2	2008	Compilation of application, PPP, all aspects of application
Agulhas Erf 854 Setback Line Application	2016	Compilation of application, PPP, all aspects of application
Basic Assessment P90 of Farm 587, Hemel en Aarde	2016-2017	Compilation of application, collation of specialist input, PPP, EMPs, all aspects of application
S102 amendment (Scoping and EIA) Steyns Quarry, Botrivier	2016-2019	Verification of S102 process with DMR; Compilation of scoping and EIA reports, collation of all specialist input, PPP, all aspects of application process (both NEMA and MPRDA processes)
Basic Assessment for On The Earth Tented Camp, Elgin	2018	Compilation of application, PPP, EMPs, all aspects of application

Basic Assessment P1 of Farm 627 Phillipskop, Stanford	2016-2017	Compilation of application, collation of specialist input, PPP, EMPs, all aspects of application
Basic Assessment P58 of Farm 406, Slanghoek	2016-2017	Compilation of application, collation of specialist input, PPP, EMPs, all aspects of application
Basic Assessment P18 of Farm 238, Stormsvlei	2018-2019	Compilation of application, collation of specialist input, PPP, EMPs, all aspects of application
Keurboomen Mine Permit application RE of P6 of Farm 191, Swellendam (Basic Assessment)	2016-2017	Compilation of application, collation of specialist input, PPP, EMPs, all aspects of application (both NEMA and MPRDA processes)
S24G authorization for Avontuur Chicken Farm, Stormsvlei	2018 to 2021	Compilation of S24G application, collation of specialist input, PPP, EMPs, all aspects of application and administration fine.
WULA/ GA/ ELU for: <ul style="list-style-type: none"> a) Cilmor distribution centre Shoprite b) Shoprite Constantia centre c) Shoprite GB Mall d) Shoprite Vergelegen Mall e) Shoprite Delft Mall f) Shoprite Boschenmeer Mall g) George quarry h) Botrivier sandmine 	2016 to 2021	Compilation of all information for DWS; project management of specialists; justification of ELU using historical photography and water use rights; Public Participation for WULA

<ul style="list-style-type: none"> i) Lomond Wine Estate j) Platteklouf Farm Riversdale k) De Berg Farm Riversdale l) Groote Fontein Farm, Stilbaai m) Brown dog Farm, Franskraal n) Ocean Mushrooms Botrivier o) Elgin Free Range Farm Karwyderskraal p) Shoprite Noordhoek q) Slanghoek Mountain Resort r) PEPKOR main site Parow s) PEPKOR DC Cape Town 		
WSI and Brine authorizations for Shoprite GB Mall and Constantia Mall	2018 to 2021	All aspects of project- compilation of WSI and brine disposal applications.
Water Tribunal appeals for two Shoprite sites (GB Mall and & Delft Mall)	2019 – 2021	Representing client during hearings and compilation and submission of appeal documentation.
GA for Curro Delft site	2020- 2021	Compilation and submission of all documentation to DWS.
Basic Assessment for dam expansion Dasbosch farm, Porterville	2019 to 2021	Compilation of application, collation of specialist input, PPP, EMPs, all aspects of application

Basic Assessment for dam expansion Montdry, Barrydale	2019 to 2021	Compilation of application, collation of specialist input, PPP, EMPs, all aspects of application
Setback Line Application Erf 954, L'Agulhas	2022	Compilation of application, PPP and impact assessment
Riverstone Farm Franschoek Water Due Diligence	2022	Assessment of existing lawful uses and development of water management and authorization strategy
Diepgat Farm Hemel-en Aarde Valley Water Due Diligence	2022	Assessment of existing lawful uses and development of water management and authorization strategy
Caledon Mixed use Development WULA	2022	Compilation of technical report, application process on e-wulaa
Keurboomen Mine Closure Plan	2022	Compilation of closure plan associated with identified risks and PPP – management of all aspects of closure process
Registration of General Authorizations for Baleia Wines	2022	Registration of 3 General Authorizations for various water uses on site – management of registration process on e-wulaa
Delft Mall WULA audit	2023	Audit of site against Water Use Licence and submission of findings and recommendations to DWS
GB Mall WULA audit	2023	Audit of site against Water Use Licence and submission of findings and recommendations to DWS
Riverstone ELU verification	2023	Verification and Validation of ELU water uses on site and submission to DWS
Greenacres Shoprite WULA	2023	Compilation of technical report, PPP, application process on e-wulaa
Cape Winelands Airport	2022 - 2024	Environmental Impact Assessment for

		Cape Winelands Airport project (includes compilation of application, collation of specialist input, PPP, WULA, MMP)
Water Tribunal Appeals for Dasbosch and Driebos Farms, Porterville	2023-2024	Representing client during hearings and compilation and submission of appeal documentation.
Rooiels Basic Assessment	2023-2024	Compilation of application, collation of specialist input, PPP, EMP, all aspects of application
Ackermans DC WULA	2024	Compilation of technical report, PPP, application process on e-wulaa
Belcon Transnet WULA	2024	Compilation of technical report, PPP, application process on e-wulaa
Erin de Vigne WULA	2024	Compilation of technical report, PPP, application process on e-wulaa
De Draay WULA	2024	Compilation of technical report, PPP, application process on e-wulaa
Melkhoutrivier WULA	2024	Compilation of technical report, PPP, application process on e-wulaa

NOTE: PPP in text refers to Public Participation Process (inclusive of stakeholder meetings, advertising, compilation of IAP register and Comments and Response)

7. AFFILIATIONS AND MEMBERSHIPS:

Fellow Member WISA (Lead Climate Change Sector)

Member IAIA

Registered Environmental Assessment Practitioner: Number 2019/367 (EAPASA)

SACNASP Registration - Pri.Sci.Nat (118385)

CURRICULUM VITAE of PAUL HENDRIK SLABBERT

ENVIRONMENTAL & HERITAGE IMPACT PRACTITIONER

EAPASA Reg 2020 • Ref: 2019/1036 & APHP Professional Heritage Practitioner

1. PERSONAL DETAILS

Born:	23 May 1973
Nationality:	South African
Drivers License:	Code EB
Languages:	Proficient in English and Afrikaans

2. KEY COMPETENCIES

I've completed my BACCALAUREUS ARTIUM ET SCIENTIAE Honors degree at the Potchefstroom University for CHO in 1995. The degree is primarily focused on qualifying Town and Regional Planners, but due to the SCIENTIAE (Science) component it equipped and stimulated my passion for environmental planning. Geography & Environmental studies, Sociology, Statistics and Mathematics in the first year and Geography & Environmental studies, Sociology in the second year formed the bases of my environmental education and interest. Economics up to 3rd year level and Statistics, Project Management and Planning Legislation at 4th year level provided me with an advance understanding of the development industry. The Town and Regional Planning curriculum from 1st to 4th year covered the entire spectrum of the built, people, heritage, natural and aesthetic environment in relation to the potential impacts on the socio, economic and bio-physical environment.

I started my Environmental Assessment Practitioner (EAP) career in 1998 as a professional practicing initially in the eco-tourism development industry. My passion for environmental, heritage & land-use planning with associated management strategies enable me to facilitate with all role players to find workable solutions in order to implement sustainable development in Greenfield areas. Due to the ECA (Act No. 73 of 1989) Section 21 Activities identified in 1997/8 the projects I was involved with required authorisation into the ECA. As a result I started to practice as an EAP obtaining authorisations for triggered developments. I gained experience in rural and urban development with the emphasis on environmental impact assessments and management. This enabled me to have various publications in leading eco-tourism magazines. I've been witness to the evolution of the EIA industry from ECA to NEMA up to the current EIA Regulations. I've been operating as a Principal EAP and Environmental Practice owner for over 20 years.

During my career to date I have accumulated experience in the following key areas:

Impact Practitioner & Environmental Planner:

- Environmental Impact Assessments [legislative & process],
- Heritage & Visual Impact Assessments [legislative & process],
- Mining; Processing & Industrial [legislative & process],

- Environmental Management [environmental control, management plans, Environmental & Social Management Systems],
- Conservation [management strategies, funding & alien vegetation],
- Power Generation [generation, distribution and powerline alignment]
- Land-Use [forward planning, feasibility study, business plan],
- Eco-tourism [trails, birding, recreation, construction, lodging],
- Community [facilitating, public participation, education],
- Water use authorisation [WULA's, GA's pollution prevention management plans and ELU's];
- Waste Management Licences [legislative & process];
- Air Emission Licences [legislative & process],
- Coastal Water Discharge Permits [legislative & process],
- Organizers [events, strategic, project management].

Business & Corporate Reasonability:

- Information on my Environmental Practice, PHS Consulting please view at www.phsconsulting.co.za
- For overview of my social and community engagement programme visit www.africanvisionfoundation.co.za

Advanced Legislative Knowledge:

Providing specialist services and managing and driving projects related to the following legislation:

- National Environmental Management Act (Act No. 107 of 1998) and 2017 Regulations;
- Environmental Conservation Act (Act No. 73 of 1989);
- National Heritage Resources Act (Act No. 25 of 1999);
- Land Use Planning Ordinance (Ordinance 15 of 1985);
- National Environmental Management: Integrated Coastal Management Act (Act No. 24 of 2008);
- National Environmental Management: Waste Act (Act No. 59 of 2008);
- National Environmental Management: Air Quality Act (Act No. 39 of 2004);

- Mineral and Petroleum Resources Development Act (Act No. 28 of 2002);
- National Water Act (Act 36 of 1998);
- National Water Services Act (Act 108 of 1997).
- National Environmental Management Act (Act No. 107 of 1998); Public Participation Guideline (10 October 2012)

3. TERTIARY EDUCATION

3.1 Honors Degree in B Art Et Scien (Planning)

Year/s of study: 1992 – 1995 (received 96/03/04)
 Institution: University of Potchefstroom (PU for CHO)

Course Modules: Geography and Environmental Studies
 Industrial Sociology
 Town & Regional Planning
 Economics
 Mathematics
 Philosophy
 Sociology
 Statistics
 Planning Legislation

Honors Thesis: Sustainable Development of Ikageng Township

4. REGISTRATIONS AND AFFILIATIONS

- Certified Member of the Environmental Assessment Practitioners Association of South Africa – Reg 2019/1036
- Professional Certified Member of Association of Professional Heritage Practitioners (APHP)
- Professional Member of the International Association for Impact Assessment (IAIA)

5. EMPLOYMENT RECORD

4.1 Current

Designation: Self-Employed
 Principal Environmental Assessment Practitioner
 Heritage Assessment Practitioner
 Environmental Planner

Period: 1998 to current

Key responsibilities: Environmental Practice (PHS Consulting) Owner that conduct, manage and review EIA's, Basic Assessments, Coastal Water Discharge Permit, Air Quality Licenses, Waste Management Licenses, Setback Line applications,

Water Use Authorizations, General Authorizations, NEMA S24G Applications, Mining Permit and License applications. Authorisation and License compliance audits, EMP's, ECO work, Social and Labour plan compilations, Alien Eradication Management Plans, Fire Management Plans, Maintenance Management Plans, Wild Life Management Plans. Environmental feasibility planning, event organizing and Corporate Social Investment programmes.

PHS Consulting: As sole Member of the Close Corporation I currently employ two fulltime EAP's namely Amanda Fritz-Whyte and Nadine Duncan. We make use of various freelance EAP's and specialist consultants depending on the project type.

4.2 Pre PHS Consulting

Designation: Employed by OmniPlan

Period: 1997 to 1998

Key responsibilities: Planning Administration, Town Planning Applications, Constraint Analysis, Layout and Design, Community Presentations.

6. COURSE / CONFERENCE PARTICIPATION

5.1 Short courses completed

I attended various DEA&DP, APHP, IAIA, Fynbos & SANBI forum workshops, training programmes and conferences since 1999 to date.

7. LIST OF EIA PROJECTS TO DATE

Please note over the years in practice I conducted many projects and it's impossible to list them all. He is a summary of the most relevant EAP projects that illustrate my competence, knowledge and experience. **Please note that all projects listed below required the need to conduct Public and Authority Participation, the result is 25 years of consultation experience.**

Major project	Tasks	Employer/client	Responsibility
Namaqualand Casino Development 1998	Evaluate and assess various site alternatives for the development of a casino in Namaqualand. Assess bio-physical & socio-economic environments from Garies to Violsdrif to Pella inland environments. Assessment of the entire coastal environment from Groenrivier mouth to Alexander bay. Presented preferred site alternative to be included in national bid for license allocations	Namaqualand District Council	Act as researcher, public participation liaison and site assessment consultant
Barolong Archaeological Eco-tourism Assessment 1999 - 2000	Investigate the feasibility to develop eco-tourism activities amongst the Barolong Tribe kraal systems on the highlands of the North West Province. After survey and mapping, proposed a feasible site close to Hartebeesfontein (NW). Planned hiking and mountain bike trails system in terms of bio-	Hartebeesfontein Farmers Association	Site Analysis, layout development, Heritage Practitioner (HP) and environmental management and ECO work

	physical and heritage constraints. Drafted a management plan for trail system and developed the trail system and product. Launched and operated initial phase until handover to landowners.		
EIA's on 4x4 trails and overnight huts, 2000 - 2001	Completed 3 x EIA's on 4x4 trails in the Du Toit Kloof and Hexriver mountains. Worked according to DECAS guidelines and ECA process at the time.	Private Landowners and conservancies	EAP
Anglo Gold Game Reserves – North West, Gauteng, Free State Provinces 2001	Contracted as Environmental Management Officer for Anglo Gold mining group in Vaal Reefs. I drafted EMP's for all three of the Nature Reserves and Interpretation Centres. This was followed by ecotourism master plans to focus on sustainable use of the Reserves. I acted as ECO, for the building projects (Lodges) in the reserves and on most of the adjacent mining areas. Water Management and monitoring of water samples were part of the duties	Anglo Gold Ashanti	ECO, HP and IEM officer
Contracted by Uluntu Environments for trail planning and assessments 2002	Status quo assessments on all trails and tracks conditions in the Rhodes Memorial, Devils Peak, Sandy Bay, Buffels Bay, Table Mountain and Cape Point areas of the Cape Peninsula National Park. Proposed rehabilitation plans, construction plans and new routes. Assess potential impact on new and disturbed areas. Construction implementation and ECO.	City of Cape Town, Cape Nature	Planning, Environmental Assessment & ECO
Kronendal Estate Residential Development – Houtbay, 2003	Environmental Impact Assessment and EMP's	Dormacorp Pty Ltd & First Plan town and regional Planners	EAP
Community Centre site selection – Pringle Bay 2003	Site Analyses in coastal zone, with comprehensive public participation. This was to determine a feasible site form both an environmental and community perspective	Hangklip Kleinmond Municipality	Site Assessor and Public participation Liaison
Mosaic Farm, Walkerbay Fynbos Conservancy, Stanford, Western Cape 2003 – 2005	Project and Conservation Management contract, responsible for drafting and implementing a major, building restoration and alien clearance program. Planning and implementing the Walkerbay Fynbos Conservancy Hiking trail alignments and management plans. Responsible for assessing development footprints for overnight camps. Implementation of a fire management plan and action plan.	Hermanus Riviera Estates	Environmental Planner, HP, Implementing Agent and Assessor
Chairman Birdlife Walke Bay 2003 - 2005	Established bird club and birding project in the Overberg and the Stanford Bird fair	Birdlife South Africa	Chairman (WB), Event Organiser and Community Liaison
Hoopjiesrivier, Free Range Chicken Farm (Farm 541 Caledon)–	Basic Assessment and EMP's	ITAKANE	EAP

Karwyderskraal, 2006 Heritage Heights (Portion 81 of the Farm 229) residential development – VanWyksdorp, 2006	Visual Impact Assessment (VIA) and Heritage Impact Assessment (HIA)	Andre Snyman	VIA and HP
Kleinberg residential and retirement village development (erf 459) – Riviersonderend 2007 Gansbaai Industrial extension (erf 210) – Gansbaai 2007 Kleinbaai harbour dredging – Gansbaai 2007	Basic Assessment, EMP's and Landscape Planning Basic Assessment, EMP's Basic Assessment, EMP's	Jacob du Toit Overstrand Municipality Overstrand Municipality	EAP EAP EAP & ECO
Langeberg Cheese factory (Portion 69 of Farm no.159) – Buffelsjag 2008 Industrial development (erf 931)- Struisbaai 2008 Shopping Centre Development – Livingstone Zambia 2008 Billboard development (erf 35270) – Milnerton 2008 Fick's Pool Restuarant – Hermanus 2008	Basic Assessment, EMP's Basic Assessment, EMP's, Landscape Planning EIA and EMP's Basic Assessment, EMP's Basic Assessment, VIA and HIA	Langeberg Kaas Pty Ltd Louis Greeff Shoprite Checkers CK Outdoor Advertising Pty Ltd Overstrand Municipality	EAP EAP EAP EAP. VIA & HP Practitioner
Residential Development (erf 1497) – Vermont 2009	Basic Assessment, EMP's, Landscape Planning Basic Assessment, EMP's	CRISTATUS INV 85 CC PJW Terblanche	EAP EAP & ECO

Single Dwelling Development (erf 278) – Malgas 2009	Scoping, EIA and EMP's	Swellendam Municipality	EAP
Petrol Filling Station (erf 1) – Swellendam 2009	Basic Assessment, EMP's	West Point Processing Pty Ltd	EAP & ECO
Fish Processing Plant – St Helena Bay 2009	VIA and HIA	Spirito Trade 82 Pty Ltd	VIA & Practitioner HP
Bloemendal Wine Estate – Durbanville 2009	Environmental Management Programme Reports and Audits	Terblanche Transport	Environmental Auditor
Maandagskop and Airport Quarries – Mosselbay and George 2009			
Matroosberg Reserve (Farm 424) Ceres 2010	Basic Assessment & EMP's	Erfdeel Boerdery	EAP & ECO
Kleinbaai Harbour Expansion (Erf 423) - Gansbaai 2010	Basic Assessment & EMP's	Overstrand Municipality	EAP
Retirement Village Development (Erf 5379 & 5300) – Onrusrivier 2010	Basic Assessment, EMP's & ECO	Tweefonteine Ontwikkelings Trust	EAP & ECO
Industrial Development (Erf 2015) – Riversdale 2010	Basic Assessment, EMP's & ECO	Hessequa Municipality	EAP & ECO
Residential Development (Erf 987) – De Kelders 2011	Basic Assessment & EMP's	Hopefull Trust	EAP
Unlawful Vegetation Removal (Farm 237) - Elim 2011	S 24 G & EMP	Moravian Church of Elim	EAP
Graveyard Development – Springbok, Okiep, Bergsig, Matjieskloof, Kommagas, Nababeep – Northern Cape 2011	Basic Assessments & EMP's	Nama Khoi Local Municipality	EAP
Residential Development (Erf 8704) – Paarl 2011	Basic Assessment & EMP's	Nevensaan Ontwikkelings	EAP

Wetland Rehabilitation – Tesselaarsdal 2011	Basic Assessment & EMP's	Department of Agriculture and Tesselaarsdal Action Group	EAP
Mushroom Farm Development (Farm 436/27) – Botrivier 2011	Basic Assessment & EMP's Waste Licence	Ocean Mushrooms	EAP & ECO
Blouberg Mine Development (Farm 88 & 91) – Melkbosstrand 2012	Visual Impact Assessment	Tip Trans	Visual Assessor
Urban Expansion Residential Estate (Farm 436/5) – Botrivier 2012	Scoping, EIA & EMP's	Crimson Properties	EAP
Cemetery Development (Erf 513 – Napier 2012	Basic Assessment & EMP's	Cape Agulhas Municipality	EAP
Coastal Sidewalks Development (Erf 462) - Franskraal 2012	Basic Assessment & EMP's	Overstrand Municipality	EAP
Riverside Residence Development (Farm 321) – Stanford 2012	Basic Assessment & EMP's	Astrodome Investments	EAP
Eco-Village Development (Farm 483/2) - Caledon 2012	Basic Assessment & EMP's	Theewaterskloof Municipality	EAP
Botrivier Windfarms – Botrivier 2013	Appointed to oppose the development of windfarms outside regional allocated areas as part of the "Wind Rush" period. Scrutinise and evaluate Scoping & EIA Documents on behalf of opposition. Handling of Appeal.	Wildeckrans Wine Estate and Botriver Community	Opposing EAP
Resort Development (Farm 213) – Bonnievale 2013	S24 G & EMP's	De Hoek Trust	EAP
Commercial Development – Chililabombwe Zambia 2013	EIA	Shoprite Checkers	EAP
Birding Route Development – South Africa 2013 to 2016	Environmental Planning to establish and support birding development in all the South African Provinces	E Snell & Co Funder and BirdLife	Environmental Planner

Intensive Feed Farm Development (Farm 728/2) – Grabouw 2013	Basic Assessment & EMP's	SA and SANPARKs Honorary Rangers	EAP & ECO
Uilenvlei Private Nature Reserve, resort development – Uilkraalmond 2013	Basic Assessment & EMP's	Babel Trading Southern Spirit Properties	Compile & Review EAP
Development of five Cemeteries - Uppington 2014	Basic Assessment & EMP's	Khara Hais Local Municipality	EAP & HP
Commercial Development – Mongu Zambia 2014	EIA	Shoprite Checkers	EAP
Establish Hartenbos River Water Users Association – Hartenbos 2014	Draft Constitution, verify ELU's conduct Public Consultation	Hartenbos River Water Users Association	Water Resource Consulting
Commercial Development Cabinda – Angola 2014	EIA	Shoprite Checkers	EAP
Resort Development (Farm 633 & 273) – Swellendam 2014	Basic Assessment & EMP's	Bakkelys Drift Properties	EAP
Natures Path Lifestyle Village - Keurboomstrand 2015	Heritage Impact Assessment guiding the EIA process towards a more aesthetic SDP	Sharpley Environmental	Heritage Impact Assessor (HP)
Hazardous Waste Assessment – Castle Mews Woodstock – 2015	Assess hazardous waste contamination in basement of old buildings, establishing the source and report finding the competent authorities. Assist with drafting management actions to clean-up and resolve.	Castle Mews	Waste Assessor
Commercial Development Kuito – Angola 2015	EIA	Shoprite Checkers	EAP
Residential Development (Farm 142/14) – Rheeboek 2015	Basic Assessment & EMP's	Mercedes Trust	EAP & ECO
		Shoprite Checkers	Water Assessor

<p>Water Act and Use Interpretations for Commercial off grid Systems – Western Cape 2015</p> <p>Coastal Sidewalk and Trail Development – Kleinmond 2015</p> <p>Wetland Rehabilitation Plan; Operational Environmental Management Plan and Environmental Liaison Committee – Sun Valley Mall Noordhoek – 2015</p>	<p>Site Assessments, Technology Assessment, Legislation Applicability, Interpretation of the Water Act.</p> <p>Basic Assessment & EMP's</p> <p>Rehabilitation Plan, OEMP & ELC</p>	<p>Overstrand Municipality</p> <p>Shoprite Checkers and City of Cape Town</p>	<p>Review EAP</p> <p>EAP & ECO</p>
<p>Air Emissions Licence (2 Neil Hare Rd) - Atlantis 2016</p> <p>Kenhardt Solar Power Farms and Power Lines – Northern Cape 2016-2018</p> <p>Jetty Development in Protected Area (Farm 480/136) – Stillbaai 2016</p> <p>Intensive feed Farm (Farm 226) – Hermanus 2016</p> <p>Industrial Development (Erf 1) - Caledon 2016</p> <p>Abalone Farm Development (Farm 421/1) – Doringbaai 2016</p> <p>Stander Mine (Farm 189/83) – Wilderness 2016</p>	<p>Air Emissions Assessment</p> <p>Appointed to investigate the development of solar farms and powerline distribution lines outside regional allocated areas as part of the “Solar Rush” period. Scrutinise and evaluate Scoping & EIA Documents on behalf of opposition. Handling of Appeal.</p> <p>Basic Assessment & EMP's</p> <p>Basic Assessment & EMP's</p> <p>Basic Assessment & EMP's</p> <p>Basic Assessment & EMP's</p> <p>Basic Assessment & EMP's</p>	<p>Malmesbury Sterilisasie Aanleg</p> <p>Dagab & Rooidam Farms</p> <p>Koringfontein Farm</p> <p>Bapchix</p> <p>Theewaterskloof Municipality</p> <p>Doring Abalone Bay</p> <p>Viadro 127</p>	<p>EAP</p> <p>Analysing EAP</p> <p>Review EAP</p> <p>Review EAP & ECO</p> <p>EAP</p> <p>Review EAP</p> <p>EAP & ECO</p>

ECO Lifestyle Estate & Nature Reserve, Hoek vd Berg (Farm 572) – Hermanus 2017	Scoping EIA & EMP's, HIA	Saddle Path Properties	Review EAP, Heritage Assessor and Water Assessor
Abalone Farm Development (Farm 108) - Jacobsbaai 2017	Basic Assessment & EMP's	Jacobsbaai Sea Products	Compile & Review EAP & ECO
Demolition Waste Management – Cape Peninsula 2017 ongoing	Waste Management Plans for demolition and redevelopments	Shoprite Checkers	Waste Assessor
Resort Development (406/58) – Slanghoek 2017	Basic Assessment & EMP's	Slanghoek Resort	Review EAP & Visual Assessor
Resort Development (Farm 627/1) - Stanford 2017	Basic Assessment & EMP's	Philipskop	Review EAP
Intensive Feed Farm (Farm 541/6) – Karwyderskraal 2017	Basic Assessment & EMP's	Itakane Trading	Review EAP & ECO
Henkershoek Mine (Farm 628) – Albertinia 2017	Basic Assessment & EMP's	Viadro 127	Compile & Review EAP
Heavy Minerals Prospecting (Alexcor Mining Right Area) – Alexanderbaai 2018	Basic Assessment & EMP's	Vast Mineral Sands	EAP
Commercial Development Namibe – Angola 2018	EIA	Shoprite Checkers	EAP
Resort Development (Farm 465) – Elgin 2018	Basic Assessment & EMP's	On The Earth	Review EAP
Residential Development (Erf 1019) - Wilderness 2018	Basic Assessment & EMP's	Costa	Compile & Review EAP
Residential Development (Erf 1156) – Witsand 2018	Basic Assessment & EMP's	Westfield Trust	EAP & ECO
Van Der Stell Liquor Store – Stellenbosch 2019	Heritage Impact Assessment	Shoprite Checkers	HP

Weir and Pipeline Development (Huiskloof River) – Botrivier 2019	S24G & EMP's	Erin de Vigne	EAP
Crocodile Diving Facility (Erf 48) – Birkenhead 2019	Cape Nature Permitting & EMP	Afrikanos	EAP
Abalone Farm Development (Farm 6/453) – Gouritsrivier 2019	Basic Assessment & EMP's	Aqunion	Compile & Review EAP
Heavy Minerals Prospecting (Trans Hex Mining Right Area) – Hondelipbaai 2019	Basic Assessment & EMP's	Saxon	EAP
Intensive Chicken Farm (Farm 487) – Caledon 2019	Basic Assessment & EMP's	Elgin Free Range Chickens	Review EAP
Agricultural Cultivation (Farm 3/497) – Malgas 2019	Scoping, EIA & EMP's	Eksteen Familie Trust	Review EAP
Airport Quarry (Farm 129/208) – George 2019	Scoping, EIA & EMP's	Mercedes Trust	Compile & Review EAP
Constantia Emporium Retail Centre - 2020	Heritage Interpretation Story & Signage	Shoprite Checkers	HP
Commercial Retail Development – City of Cape Town 2017 – 2020	Environmental Management Plans & Environmental Control Officers various projects, Delft, Sun Valley, Constantia, Sitari, Brackenfell, Paarl, Table View and Gordons Bay.	Shoprite Checkers	EMP & ECO
Heavy Mineral Mines – Alexcor Northern Cape 2020 – 2021	Environmental Impact Study	Deep Blue Minerals	EAP
Free Range Chicken Farms – 2020 – 2021	Environmental Impact Assessment	Elgin Free Range Chickens	EAP
Sitari Retail Centre - 2021	Heritage Interpretation Story & Signage	Shoprite Checkers	HP
Hoop Urban Expansion – Overberg 2022	Environmental Impact Study Heritage and Visual Impact Study	Hoop Trust	EAP & HIA

EFRC Abattoir – 2022	Environmental Impact Assessment	Elgin Free Range	EAP
Atlantis Air Quality - 2022	Atmospheric Impact Assessment	Atlantis Processors	EAP
Cape Winelands Airport – City of Cape Town 2021 – 2023	Environmental Impact Assessment	Cape Winelands Airport	EAP
West Point Processors (Fish Meal & Oil) – St Helena Bay 2019 – 2023	Environmental & Atmospheric Impact Study	TerraSan Group	EAP
Sea Concession 2A, Heavy Mineral Mine – Port Nolloth 2023- 2024	Environmental Impact Assessment & EMP	Whale Head Minerals	EAP
Memorialisation of Hardekraaltjie Cemetery – 2024	Heritage Assessment	University of Stellenbosch	HP
Rogland Sand Mine – Albertinia – 2024	Basic Assessment & EMP	Terblanche Transport	EAP
Revitalization of Stellenbosch Mills Square - 2024	Heritage Assessment	Shoprite Checkers	HP

References:

1. Shoprite Checkers - Leon Myburgh (084 223 4788)
lemyburgh@shoprite.co.za.
2. Cape Winelands Airport - Nick Ferguson (082 374 8769)
nick@capewinelands.aero
3. West Point Processors - Marthin Potgieter (082 551 0217)
marthin@saldanha.co.za