

CV of EPJ Kleynhans

Personal Details

Name: Evert Philippus Jacobus Kleynhans
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Academic qualification

B Eng (Hons): University of Pretoria, South Africa
Pr Eng 17 March 1994, registration number 940108
EAPASA 23 April 2020, registration number 2020/2255

Jaco Kleynhans is a professional engineer, ECSA number 940108, and conducted environmental assessments over the past 15 years and were the environmental assessment practitioner (EAP) for more than 50 Environmental Impact Assessment (EIA) (including assessments done under the Mineral Petroleum Resources Development Act) projects and more than 40 Basic Assessment (BA) (or equivalent) projects during that period. A list of the projects is attached as Annexure 1 (EIAs) and Annexure 2 (BA). He is a registered Environmental Assessment Practitioner (EAP), registration number 2020/2255.

His expertise include the following –

Project Management

Manage legal environmental authorisation processes for both green and brown coal mining projects. It includes initiating and managing all the environmental related specialist studies that need to be undertaken as well as the conceptual engineering requirements

associated with such a project. Some 100 such projects were completed successfully over the last 15 years.

Mine Water Management

Assess water quality management strategy alternatives and recommend/motivate the preferred option to the decision makers and other I&APs. It includes activities related to water, water containing waste and waste.

Water Quality Management

Compile water use license applications for coal mines in the Mpumalanga Highveld. It includes the quantification and qualification of surface water impacts. This is then followed by integrating surface and groundwater impacts resulting in a qualitative and quantitative integrated water assessment. Outputs from such an assessment include integrated water and salt balances as well as an integrated water management plans. As part of these assessments water quality objectives are developed, set and motivated.

Environmental

Operational environmental management services are provided at a number of coal mines. It includes the implementation of the EMP commitments as well as conditions set in Water Use Licenses and Environmental authorisations. Monitoring and measurement of surface - , groundwater and dust are done, results interpreted and corrective actions proposed, implemented and monitored. EMP performance assessments and annual closure cost assessments are also conducted. Conducted 6 environmental due diligence assessments that include Optimum Colliery, Kleinkoppje Colliery, Ermelo, Springlake, Vuna Mining, Keaton Energy and Project Iniqua.

Environmental Impact Assessments

Since 2005 I was the appointed EAP for various environmental impact assessments and it includes mostly green field mining related projects. A number of basic assessments were also conducted during that period. Refer to Annexure 1 and 2.

Environmental Engineering

Develop conceptual design of pollution control measures, Mine Residue Deposit, and Water Supply Services.

Water related project the past 4 years

The following water related projects were conducted during the past four years: -

- Goedehoop water management system including detailed water balance determinations and management of the water use license requirements, client Muhanga Mines
- Vlaklaagte TNC water management and water balance determination, client Muhanga Mines
- KLX project water management and water balance calculations, client South32
- Pegasus Colliery water management and water balance calculations, client South32
- Welstand Colliery dewatering and mine optimization, client Mbuyelo Mining
- Vaalwater water management and water balance calculations, client Muhanga Mines
- VDDC Dewatering, client South32
- Elandspruit, client Wescoal

Current water related projects

- Langkloof water management measures to prevent impact on wetlands, client Muhanga Mines
- Welgemeend water management and water balance calculations, client Welgemeend Colliery
- Welstand water management, client Mbuyelo Mining
- Vlaklaagte water management and water balance calculations, client 2Seam
- Diversion of the Olifants River, client 2Seam
- OC6 water management and water balance calculations, client 2Seam
- Kebrafield water management and water balance calculations, client Mbuyelo Mining

- Ermelo Dump expansion water management and water balance, client Scinta Energy
- Project Z, water management and water balance, client Mwelase Mining.

Environmental liability assessments:

Environmental liability assessments to determine the financial provision of mines have been conducted since 1995. First for Douglas Colliery over a period of 7 years and then for Optimum Colliery for a period of 3 years.

Thereafter such assessments were made for BHP Billiton, South32, Glencore, Shanduka Coal, Umcebo Mining, Umsimbithi Mining, Muhanga Mines, Rietkuil, Mzimkhulu Mining, Rietvlei Mining and Wescoal Mining.

A development of a framework in terms of the new NEMA Financial Liability Assessment, Regulation No. R 1147 of 20 November 2015, was done for Glencore.

Annual rehabilitation plans, final rehabilitation and decommissioning and closure plans as well as risk reports were compiled for Glencore, Mwelase and Scinta Mining

Summary of Work Experience:

February 2008 – present	Jaco – K Consulting Middelburg South Africa
2005 – 2008	African EPA Consulting Engineers Pretoria, South Africa - Regional Engineer
1995 – 2005	Ingwe Collieries Environmental Manager at Douglas Colliery and Optimum Colliery
1987 – 1995	Department of Agriculture – Final position: Senior Engineer

Annexure 1: EIA's including EMPs compiled for mining rights applications

Proj No	Title	Role	Detail	Client
African EPA				
A0467	Doornrug EMP	Writer	EMP for mining right application	Umcebo
A0678	Hendrina Power Station fines project	Writer	EIA for listed activities	M Blenkinsop
A0744	Khutala Colliery EMP amendment	Writer	Amendment of EMP for Section 102 application	South32
A1301	Klippan EMPR amendment	Writer	Amendment of EMP for Section 102 application	Umcebo
A1379	Koornfontein EMPR Amendment	Writer	Amendment of EMP for Section 102 application	Koornfontein Mines
A1169	Spitskop EMPR	Reviewer	EMP for mining right application	Msobo
Jaco - K Consulting				
A0002	Wonderfontein EMPR	Writer	EMP for mining right application	Umsimbithi
A0003	Polmaise EMPR	Reviewer	EMP for mining right application	Carbon Development Corporation
A0005	Jikama EMPR	Writer	EMP for mining right application	Kleinfontein
A0009	Klippan EMPR	Writer	EMP for mining right application	Umcebo
A0012	Langkloof EMPR	Writer	EMP for mining right application	Muhanga
A0013	Naauwpoort EMPR	Writer	EMP for mining right application	Muhanga
A0035	Zonnebloem EIA	Reviewer	EMP for mining right application	Carbon Development Corporation
A0051	Goedehoop EIA	Writer	EMP for mining right application	Muhanga
A0057	Kleinfontein amendment	Writer	Amendment of EMP for Section 102 application	Kleinfontein
A0065	Klippan EMP Amendment	Writer	Amendment of EMP for Section 102 application	Umcebo
A0099	Emmerenthia	Writer	EMP for mining right application	Muhanga
A0134	Vlaklaagte EMP River	Writer	EMP for mining right application	Muhanga
A0155	OP Goedehoop	Writer	EMP for mining right application	Muhanga
A0172	Khutala Block A EMP	Writer	Amendment of EMP for Section 102 application	South32
A0175	Springboklaagte EMP	Writer	EMP for mining right application	Shanduka
A0207	Wachtenbietjieskop EMP	Writer	EMP for mining right application	Muhanga
A0255	Moabsvelden EIA, EMP, WUL	Reviewer	EMP for mining right application	Neoshoe Trading
A0257	TNC Mine	Writer	EMP for mining right application	Koornfontein Mines
A0268	Vlaklaagte EMP Amendment	Writer	EMP for mining right application	Muhanga

Proj No	Title	Role	Detail	Client
A0271	KSA Extension	Writer	Amendment of EMP for Section 102 application	South32
A0318	Jikama NEMA	Writer	Environmental authorisation for mining right	Kleinfontein
A0322	Argent EIA EMP WUL	Reviewer	Environmental authorisation for mining right	Dialstat
A0352	OP Goedenhoop amendment	Reviewer	Amendment of EMP for Section 102 application	Muhanga
A0364	SBL EMP EIA	Writer	EMP for mining right application	Shanduka
A0377	Pegasus EIA and EMP	Writer	EMP for mining right application	South32
A0400	Spitzkop EIA NEMA	Reviewer	Environmental authorisation for mining right	Msobo
A0447	Wonderfontein EMP Amendment	Reviewer	Amendment of EMP for Section 102 application	Umsimbithi
A0451	Vaalwater EMP WUL	Writer	EMP for mining right application	Muhanga
A0471	Elandspruit EIA	Reviewer	Environmental authorisation for mining right	Wescoal
A0519	Pegasus EIA and EMP review	Writer	Environmental authorisation for mining right	South32
A0520	KLX EMP WULA	Reviewer	Environmental authorisation for mining right	South32
A0542	VDDC Dewatering	Writer	Environmental authorisation for mining right	South32
A0653	Khutala Water treatment EIA	Reviewer	Environmental authorisation for mining right	South32
A0655	Wildfontein EIA	Writer	EMP for mining right application	Shanduka
A0663	Townlands Amendment	Writer	Amendment of EMP for Section 102 application	Shanduka
A0727	Elandspruit Amendment	Reviewer	Amendment of EMP for Section 102 application	Wescoal
A0728	Welstand EMP Amendment WUL Designs	Reviewer	Amendment of EMP for Section 102 application	Mbuyelo
A0734	Wonderfontein EMP Amendment 2016	Writer	Amendment of EMP for Section 102 application	Umsimbithi
A0735	Langkloof EMP 2017 Amendment	Writer	Amendment of EMP for Section 102 application	Muhanga
A0752	Davel EA	Reviewer	Environmental authorisation for mining right	Scinta
A0832	WP Discard Dump	Reviewer	Environmental application EIAR and EMPr	Wescoal
A0835	Zondagsvlei EMP WUL	Reviewer	Environmental authorisation for mining right	Mwelase
A0843	Ermelo Dump EIA & WUL	Reviewer	Environmental application EIAR and EMPr	Scinta
A0917	2 Seam Block 6 WUL	Reviewer	Amendment of EA and EMP	Africoalsa
A0944	Kebrafield Area 1 WUL	Reviewer	Amendment of EA and EMP	Mbuyelo
A0946	Wonderfontein road EA	Reviewer	Environmental authorisation for road diversion	Umsimbithi
A0954	Lehlabile EMP & WUL	Reviewer	Environmental authorisation for mining right	Mwelase
A0961	Welgemeend EMP Amendment 2018	Reviewer	Amendment of EA and EMP	Mavungwani
A1015	Rietkuil	Reviewer	Amendment of EA and EMP	Mwelase

Annexure 2: BA including EMPs compiled for prospecting right applications

Proj No	Title	Role	Detail	Client
A0061	Baberton Paving	Reviewer	BA for listed activity	Leadal Property investments
A0071	Ermelo Basic assessment	Writer	BA for listed activity	South32
A0082	Koubad PP EMP	Writer	EMP for prospecting	Muhanga
A0086	Gemsbokfontein	Writer	EMP for prospecting	WERM Mining
A0087	Wildebeestfontein	Writer	EMP for prospecting	Amakhozi Mining and Engineering
A0088	Strehla	Writer	EMP for prospecting	Lehlabile Africa
A0089	Kaallaagte	Writer	EMP for prospecting	Amakhozi Mining and Engineering
A0090	Moderfotein	Writer	EMP for prospecting	Amakhozi Mining and Engineering
A0091	Goedehoop PP and EMP	Writer	EMP for prospecting	Amakhozi Mining and Engineering
A0092	Resurgam PP and EMP	Writer	EMP for prospecting	WERM Mining
A0097	Groenvlei PP	Writer	EMP for prospecting	Enolonkulu Investment
A0098	Enkeldoorn PP	Writer	EMP for prospecting	Muhanga
A0100	Moabsvelden	Writer	EMP for prospecting	Lehlabile Africa
A0102	Wildfontein PP	Writer	EMP for prospecting	Lehlabile Africa
A0105	Vlaklaagte PP	Writer	EMP for prospecting	WERM Mining
A0107	Brandkraal PP	Writer	EMP for prospecting	Belton Park
A0111	Klipfontein PP	Writer	EMP for prospecting	Belton Park
A0116	Tafelkoppies PP EMP	Writer	EMP for prospecting	New Order Investments
A0117	Uitkoms PP	Writer	EMP for prospecting	Exclusive Access Trading
A0118	Ploegschaar PP EMP	Writer	EMP for prospecting	Twin Cities Trading
A0121	Jakkalsdans PP EMP	Writer	EMP for prospecting	Muhanga
A0122	De Roodepoort EMP	Writer	EMP for prospecting	Muhanga
A0131	Bezuidenhoutshoek PP	Reviewer	EMP for prospecting	New Order Investments
A0146	Delmas Prospecting	Writer	EMP for prospecting	South32
A0165	G Strydom EMP	Writer	EMP for prospecting	Muhanga
A0166	Bankfontein EMP	Writer	EMP for prospecting	Muhanga
A0212	Leandra Prospecting EMP	Writer	EMP for prospecting	South32
A0225	Sheepmore PP EMP	Writer	EMP for prospecting	Optimum Mining and Exploration
A0290	Bankfontein & Roodepoort Exceed	Writer	EMP for prospecting	Exceed Resources

Proj No	Title	Role	Detail	Client
A0346	Leinster Prospecting EMP	Reviewer	EMP for prospecting	Shaking Earth
A0350	Kleinfontein crossing BA	Reviewer	BA for listed activity	Kleinfontein
A0365	Argent Power Line	Writer	BA for listed activity	Dialstat
A0382	TNC prospecting EMP	Writer	EMP for prospecting	Koornfontein Mines
A0394	VDD road R575 NEMA	Reviewer	BA for listed activity	Shanduka
A0395	Argent water pipeline	Reviewer	BA for listed activity	Dialstat
A0440	Springlake EIA	Writer	BA for listed activity	Springlake
A0446	Wonderfontein BA	Writer	BA for listed activity	Umsimbithi
A0509	Emmerentia Prospecting Ptn 1	Writer	EMP for prospecting	Muhanga
A0590	Mierhoop BA	Reviewer	EMP for prospecting	Genet Manganese
A0591	Lemoenkloof	Reviewer	EMP for prospecting	Genet Manganese
A0594	BA 559 Hay	Reviewer	EMP for prospecting	Genet Manganese
A0598	K Kop BA	Reviewer	EMP for prospecting	Genet Manganese
A0603	Zeekoebaart BA	Reviewer	EMP for prospecting	Genet Manganese
A0604	Sandham BA	Reviewer	EMP for prospecting	Genet Manganese
A0937	Heidelberg Prospecting BA	Reviewer	BA for listed activity	Mwelase
A0941	Wolvenbank PP BA	Reviewer	BA for listed activity	Mwelase

GEREGISTREERDE WOON- EN POSADRES

1. Bewaar die bewys van u GEREGISTREERDE WOON- EN POSADRES in hierdie sakkie.

2. Indien u van adres verander het, of indien besonderhede van u huidige adres, by. straatnaam, en/of -nommer, ens. verander het, moet die vorm KENNISGEWING VAN ADRESVERANDERING, wat in die sakkie agter in die identiteitsdokument is, gebruik word om die verandering aan te meld en moet dit ingedien word by of gepos word aan die naaste streek-/distrikkantoor van die DEPARTEMENT VAN BINNELANDSE SAKE.

REGISTERED RESIDENTIAL AND POSTAL ADDRESS

1. Keep the proof of your REGISTERED RESIDENTIAL AND POSTAL ADDRESS in this pocket.

2. If you have changed your address, or, if particulars of your present address, e.g. name of street and/or street number, etc., have been changed, the NOTICE OF CHANGE OF ADDRESS form in the pocket at the back of the identity document must be used to report the change and it must be handed in at or posted to the nearest regional/district office of the DEPARTMENT OF HOME AFFAIRS.

1

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S. A. BURGER/S. A. CITIZEN

VAN/SURNAME

KLEYNHANS

VOORNAME/FORENAMES

EVERT PHILIPPUS JACOBUS

GEBORTEDISTRIK OF-LAND/
DISTRICT OR COUNTRY OF BIRTH

SUID-AFRIKA

GEBORTE DATUM/
DATE OF BIRTH

1963-09-23



DATUM UITGEREIK
DATE ISSUED

1999-07-29

UITGEREIK OP BESAG VAN DIE
DIREKTEUR-GENERAAL:
BINNELANDSE SAKE

ISSUED BY AUTHORITY OF THE
DIRECTOR-GENERAL:
HOME AFFAIRS

3212236



Universiteit van Pretoria

Ons, die Raad en die Senaat van die Universiteit van Pretoria, verklaar

EVERT PHILIPPUS JACOBUS KLEYNHANS

wat na afgelegde eksamen, aan die vereistes van die Wet
en Statuut van die Universiteit voldoen het, 'n

Baccalaureus Honores in Ingenieurswese (LANDBOU)

As bewys daarvan plaas ons ons onderskeie handtekeninge
en die Seël van die Universiteit van Pretoria hieronder.

Geteken namens die Raad

A handwritten signature in black ink, appearing to be 'L. J. Jansen', written over a horizontal line.

Vise-kanselier en Rektor

Geteken namens die Senaat

A handwritten signature in black ink, appearing to be 'L. J. Jansen', written over a horizontal line.

Voorsitter

Geteken namens die Fakulteit
Ingenieurswese

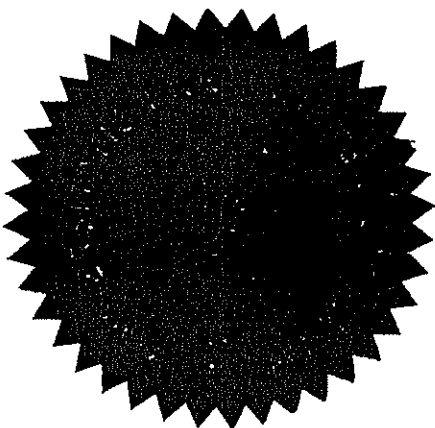
A handwritten signature in black ink, appearing to be 'W. A. van der Merwe', written over a horizontal line.

Dekaan

A handwritten signature in black ink, appearing to be 'A. J. van der Merwe', written over a horizontal line.

Registrateur (Akademies)

1991-03-28





Universiteit van Pretoria

Ons, die Raad en die Senaat van die Universiteit van Pretoria, verklaar

EVERT PHILIPPUS JACOBUS KLEYNHANS

wat na afgelegde eksamen, aan die vereistes van die Wet en Statuut van die Universiteit voldoen het, 'n

Baccalaureus in Ingenieurswese

(LANDBOU-INGENIEURSWESE)

As bewys daarvan plaas ons ons onderskeie handtekeninge en die Seël van die Universiteit van Pretoria hieronder.

Geteken namens die Raad

Onderkanselier

Geteken namens die Senaat

Voorsitter

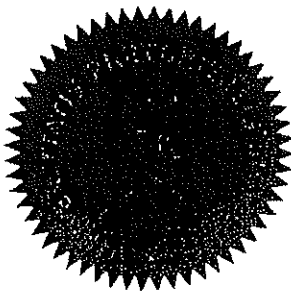
Geteken namens die Fakulteit Ingenieurswese

Dekaan

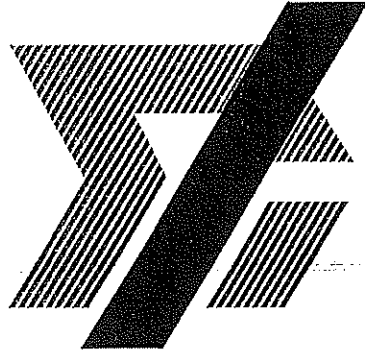
Registrateur (Akademies)

1986/04/10

Datum



Suid-Afrikaanse Raad vir Ingenieurswese



Hiermee word
gesertifiseer
dat

Evert Philippus Jacobus Kleynhans

geregistreer is as

Professionele Ingenieur

kragtens die Wet op die Ingenieurswese-professie van Suid-Afrika
1990 (Wet 114 van 1990)

Datum *17 Maart 1994*

Registrasienommer *940108*

President

Registrateur



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Environmental Assessment Practitioners Association of South Africa

Advancing environmental assessment practice in South Africa



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Mr Evert Philippus Jacobus Kleynhans
2 Walter Sisulu Street
Midlands Office Park, Block A, Office 3
Middelburg
1050

Sent by email to: jaco@jacokconsulting.co.za

Dear Mr Kleynhans

Registered Environmental Assessment Practitioner: Number 2020/2255
Evert Philippus Jacobus Kleynhans : South African ID 6309235073086

The Environmental Assessment Practitioners Association of South Africa (EAPASA) herewith certifies that Evert Philippus Jacobus Kleynhans is a Registered Environmental Assessment Practitioner (EAP) in accordance with the prescribed criteria of Regulation 15.(1) of the Section 24H Registration Authority Regulations (Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the National Environmental Management Act (NEMA), Act No. 107 of 1998, as amended).

Your registration is duly authorised by EAPASA as the single Registration Authority for EAPs in South Africa (appointed as per Regulation No. 104, Gazette No. 41434 of 8 February 2018, in terms of section 24H(3)(a) of the NEMA). Your status as a Registered EAP is displayed in the 'EAP Register' - please find your name and contact email address at

<https://registration.eapasa.org/registered-practitioners>

Your registration is effective for a period of five years from 23 April 2020, and expires on 23 April 2025. The renewal of your registration in 2025 will be contingent on you having met the requirements of EAPASA's Continuing Professional Development (CPD) policy during each year of registration.

As a Registered EAP you are required to uphold the EAPASA Code of Ethical Conduct and Practice in your professional endeavours, towards the goal of quality assurance in environmental assessment practice.

Please accept my congratulations on your registration.

Best regards

Dr Richard Hill
Registrar
Date: 23 April 2020

**Environmental Assessment
Practitioners Association
of South Africa**



Registration No. 2020/2255

Herewith certifies that

**Evert Philippus Jacobus
Kleynhans**

is registered as an

Environmental Assessment Practitioner

***Registered in accordance with the prescribed criteria of Regulation 15. (1)
of the Section 24H Registration Authority Regulations
(Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the
National Environmental Management Act (NEMA), Act No. 107 of 1998, as
amended).***

Effective: 01 March 2022

Expires: 28 February 2023

Chairperson

Registrar

