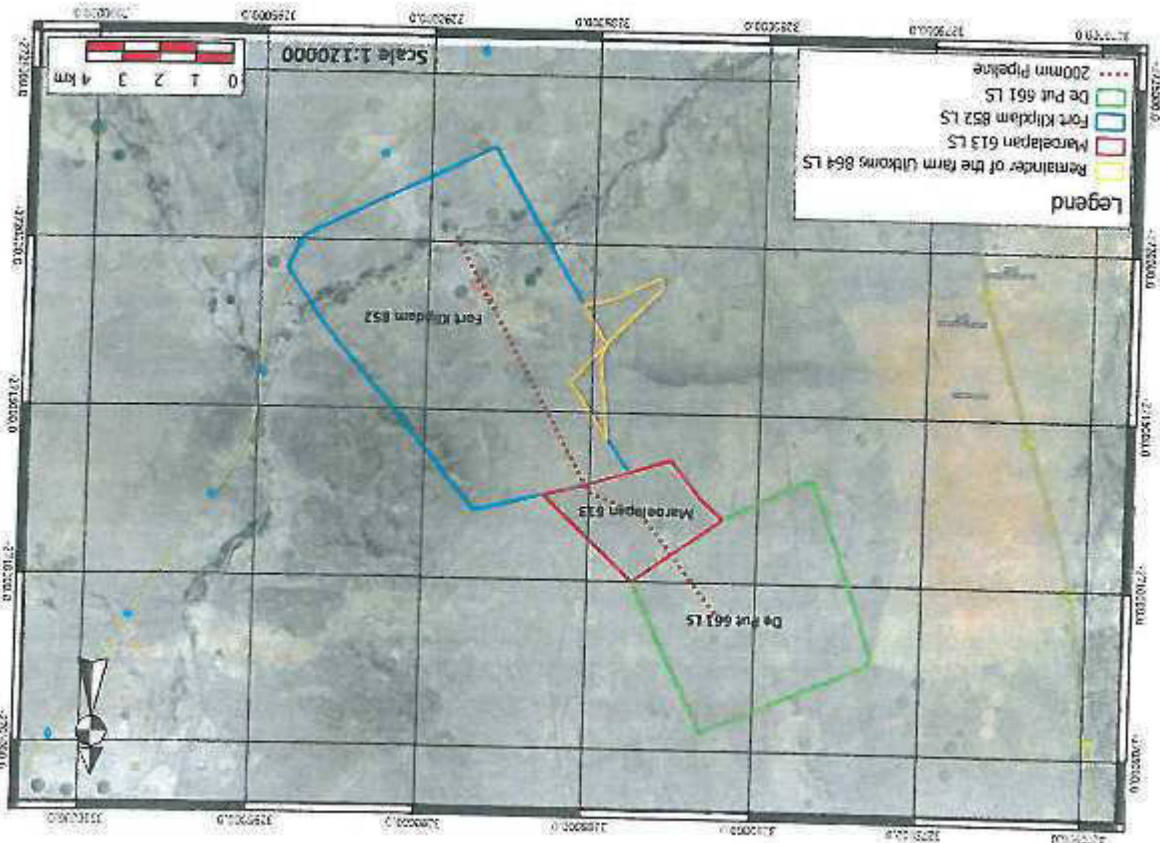


Appendix E2:

Written notices issued to those persons detailed in 1(b) to 1(f) above

Fort Klipdam



Locality Map

NOTICE OF BASIC ASSESSMENT PROCESS

Notice is given of an application for a **Basic Assessment Process** that was submitted to the Limpopo Department of Economic Development, Environment & Tourism, in terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing **Basic Assessment Procedures (Notice 1 and 3 – Government Notice R544 & R546)** for the following activity:

Reference No: 12/1/9/1-C83

NEAS Reference No: LIM/EIA/0000814/2014

Project Name: Water infrastructure development for agricultural and domestic purposes on the Farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the Farm Uitkoms 864 LS.

Property Description: The site is situated on the Farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the Farm Uitkoms 864 LS.

Project description: The proposed project is for the construction of dams and pipelines on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the Farm Uitkoms 864 LS. It is furthermore also the intention of the applicant to withdraw water from boreholes for purposes of irrigation and domestic use. Water will be extracted from boreholes for purposes of irrigation transported via the pipelines across the Farm Maroelapan 613 LS and be domestic purposes on the Farm De Put 611 LS and irrigation on the other farms. The pipeline will in total cover a length of approximately 12,9km. A Water Use License Application is also in the process of being applied.

Proponent Name: Ramaliane Trust

Listing Activities Applied: GNR 544 (Listing Notice 1), 18 June 2010 – Activity 9, 11, 12 & 18 and GNR 546 (Listing Notice 3), 18 June 2010 – Activity 2 & 16

Location: The study area is situated north of the N1 between Polokwane and Louis Trichardt, approximately 20 km north-east of Polokwane. The water infrastructure will be aligned in a north-western direction originating at the Sand River.

Date of Notice: 8 May 2014 – 17 June 2014

Queries regarding this matter should be referred to:

Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: **Juanita De Beer**

Project inquiries: **Mary-Lee van Zyl**

P.O. Box 11375

Maroelana 0161

www.bokamoso.biz

Tel: (012) 346 3810

Fax: (086) 570 5659

E-mail: lizelleg@mwweb.co.za



In order to ensure that you are identified as an interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above **within 40 days of this Notice.**

LEBOMBO GARDEN BUILDING
38 LEBOMBO ROAD
ASHLEA GARDENS
0061

P.O. BOX 11375
MAROELANA
0161

Tel: (012) 346 3810
Fax: 086 570 5659
E-mail: lizelleg@mweb.co.za
Website: www.bokamoso.biz



Dear Landowner

10 March 2014

Basic Assessment Process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010 for the Water infrastructure development for agricultural and domestic purposes on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS

Water infrastructure development for agricultural and domestic purposes on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS it is furthermore also the intention of the applicant to withdraw water from boreholes for purposes of irrigation for domestic use.

We hereby confirm that Ramaliane Trust, appointed Bokamoso Landscape Architects and Environmental Consultants cc, to undertake a Basic Assessment Process in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment (EIA) Regulations, 2010 for the construction of dams and pipelines on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS as listed above.

In terms of the 2010 amended NEMA EIA Regulations, the applicant, if not the land-owner, must notify the land-owner and tenants of a proposed development planned on a property occupied by the land-owner/tenant. In the case of this application the property occupied by you (as the land-owner/tenant) forms part of the land-parcel earmarked for the above-mentioned project.

This notification therefore represents the formal notification of land-owners and/or tenants of the proposed construction of dams and pipelines in and around the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS. This notification letter will be submitted as part of the formal application to be submitted to the Limpopo Department of Economic Development, Environment & Tourism (LEDET).

This notification also affords you the opportunity to register (at an early stage) as an Interested and Affected Party (I&AP) in the Basic Assessment Process. In order to register you are requested to fill in your full details on the form supplied below and to fax or e-mail your details to Juanita de Beer (public participation co-ordinator of Bokamoso) for the inclusion of your details onto our public participation database.

REG NO. CK 2010/087490/23
VAT REG NO. 4080260872

BOXAMOSO LANDSCAPE ARCHITECTS AND ENVIRONMENTAL CONSULTANTS CC TRADING AS BOXAMOSO ENVIRONMENTAL

MEMBER: Lizelle Gregory

Once you are registered as an interested and affected party, we will keep you informed of the progress with the application and we will make all correspondence, documents and other information regarding the application available to you throughout the application process.

Registration as Interested and Affected Party	
Farm Name:	
Erf /Portion Number:	
Street Address:	
Landowner:	Name & Surname: Email address: Telephone: Cell phone: Fax Number: Postal Address:
Tenant Details: (if applicable)	Name & Surname: Email address: Telephone: Cell phone: Fax Number: Postal Address:

Sincerely,

Lizelle Gregory
Bokamoso Landscape Architects and Environmental Consultants cc

List of REGISTERED LETTERS
Lys van GEREGISTREERDE BRIEWE
(With an insurance option/met 'n versekeringsopsie)



Full tracking and tracing/Volledige volg en spoor

Name and address of sender
 Naam en adres van afsender: Bobamase P.O. Box 11 375,
Marcelona 0161,
Fort Klipdam

Toll free number
 Tolvry nommer
0800 111 502

No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-kliëntafskrif	
1	Richard Schultenburg P.O. Box 196, Dendron, 0715					<small>(With a domestic insurance option, directed 0800 111 502 www.epo.co.za)</small> RD 885 058 972 ZA CUSTOMER COPY 3010289	
2							
3							
4							
5							
6							
7							
8							
9							
10							
		Total	Totaal	R	R	R	R

Number of letters posted
 Getal briewe gepos: 1

Signature of client
 Handtekening van klient: [Signature]

Signature of accepting officer
 Handtekening van aanneembeampte: [Signature]

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.



Deeds Office Property

MAROELAPAN, 613, 0 (PRETORIA)



 information is our business

GENERAL INFORMATION

Deeds Office PRETORIA
 Date Requested 2013/12/09 13:48
 Information Source DEEDS OFFICE
 Reference -

PROPERTY INFORMATION

Property Type FARM
 Farm Name MAROELAPAN
 Farm Number 813
 Portion Number 0
 Local Authority MOLEMOLE LOCAL MUNICIPALITY
 Registration Division LS
 Province LIMPOPO
 Diagram Deed DB183/40
 Extent 799.0715H
 Previous Description -
 LPI Code TOLS0000000061300000

OWNER INFORMATION

Owner 1 of 1

Person Type INDIVIDUAL
 Name SCHULENBURG RICHARD
 ID Number 4605035003088
 Title Deed T18171/1995
 Registration Date 1995/03/09
 Purchase Price (R) 598,500
 Purchase Date 1995/01/31
 Share -
 Microfilm Reference 1995 0799 3766
 Multiple Properties NO
 Multiple Owners NO

ENDORSEMENTS (3)

#	Document	Institution	Amount (R)	Microfilm
1	B4875/2011	N T K LIMPOPO AGRIC LTD	2,000,000	-
2	VA5183/1999	STANDARD BANK OF SOUTH AFRICA LTD	UNKNOWN	2000 0660 4767
3	LS.613		UNKNOWN	1988 1114 0698

HISTORIC DOCUMENTS (4)

#	Document	Owner	Amount (R)	Microfilm
1	B56357/1995	NEDCOR BANK LTD	360,000	1995 0764 2545
2	T6844/1985	VENTER DAVINA	BOEDEL	1996 1177 4133
3	148757/1980	VENTER IZAK STEPHANUS JOHANNES	UNKNOWN	1985 0338 0049
4	T6846/1985	GRUISPAD LANDGOED PTY LTD	225,000	1995 0328 3081

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Deeds Office Property

DE PUT, 611, 2 (PRETORIA)

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GENERAL INFORMATION

Deeds Office PRETORIA
 Date Requested 2014/02/06 11:56
 Information Source DEEDS OFFICE
 Reference -

PROPERTY INFORMATION

Property Type FARM
 Farm Name DE PUT
 Farm Number 611
 Portion Number 2
 Local Authority MOLEMOLE LOCAL MUNICIPALITY
 Registration Division LS
 Province LIMPOPO
 Diagram Deed T11082/921
 Extent 655.3512H
 Previous Description MACSDALE-LG793/971
 LPI Code TOLSC000000006110C002

OWNER INFORMATION

Owner 1 of 1

Person Type INDIVIDUAL
 Name SCHULENBURG RICHARD
 ID Number 4605035003088
 Title Deed T3158/1990
 Registration Date 1990/01/17
 Purchase Price (R) 400,000
 Purchase Date 1989/10/11
 Share -
 Microfilm Reference 1990 0096 0218
 Multiple Properties NO
 Multiple Owners NO

ENDORSEMENTS (4)

#	Document	Institution	Amount (R)	Microfilm
1	B46098/2009	FIRSTRAND BANK LTD	10,000,000	-
2	B50861/2013	FIRSTRAND BANK LTD	5,000,000	-
3	K2396/1988S		UNKNOWN	1988 1656 0740
4	LS,611,2		UNKNOWN	1988 1114 0691

HISTORIC DOCUMENTS (3)

#	Document	Owner	Amount (R)	Microfilm
1	B3536/1990	NEDPERM	200,000	1990 0096 0243
2	B155998/2007		UNKNOWN	
3	T7545/1981	TOIT THOMAS NEFDI DU	UNKNOWN	1990 0096 0209

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Contact Information



VAN NIEKERK, MICHAEL JOHN GRAY

GENERAL INFORMATION

Date Requested 2014/03/07 08:55
Reference -

PERSON INFORMATION

Surname VAN NIEKERK
Forename(s) MICHAEL JOHN GRAY
Date of Birth 1954/02/14
ID Number(s) 5402145062082

CONTACT INFORMATION

Phone (home) 0152911982
(Last updated: 2000/01/01)
Phone (work) 0152953640
(Last updated: 2000/01/01)
Mobile Number 0824521521
(Last updated: 2000/01/01)
Residential Address NOT AVAILABLE
Postal Address NOT AVAILABLE

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Deeds Office Property

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FORT KLIPDAM, 852, 17 (REMAINING EXTENT) (PRETORIA)

GENERAL INFORMATION

Deeds Office: PRETORIA
Date Requested: 2014/02/25 11:56
Information Source: DEEDS OFFICE
Reference: -

PROPERTY INFORMATION

Property Type: FARM
Farm Name: FORT KLIPDAM
Farm Number: 852
Portion Number: 17 (REMAINING EXTENT)
Local Authority: MOLEMOLE LOCAL MUNICIPALITY
Registration Division: LS
Province: LIMPOPO
Diagram Deed: T8077/944
Extent: 22.9334H
Previous Description: PTN2-LG963/971
LPI Code: TOLSO0000000085200017

OWNER INFORMATION

Owner 1 of 2

Person Type: INDIVIDUAL
Name: VAN NIEKERK MICHAEL JOHN GRAY
ID Number: 5402145062082
Title Deed: T16749/2013
Registration Date: 2013/03/07
Purchase Price (R): 1,200,000
Purchase Date: 2012/10/31
Share:
Microfilm Reference:
Multiple Properties: NO
Multiple Owners: NO

Owner 2 of 2

Person Type: INDIVIDUAL
Name: VAN NIEKERK LOUISA CHRISTINA PETRONELLA
ID Number: 6112150122007
Title Deed: T16749/2013
Registration Date: 2013/03/07
Purchase Price (R): 1,200,000
Purchase Date: 2012/10/31
Share:
Microfilm Reference:
Multiple Properties: NO
Multiple Owners: NO

ENDORSEMENTS (1)

#	Document	Institution	Amount (R)	Microfilm
1	VA1610/2013	KWEZI INFRASTRUCTURE SERVICES PTY LTD	UNKNOWN	-

HISTORIC DOCUMENTS (10)

#	Document	Owner	Amount (R)	Microfilm
1	B65013/1994	ABSA BANK	70,000	2003 0839 1923
2	B66350/1995	ABSA BANK LTD	50,000	2003 0839 1927
3	B63652/1998		UNKNOWN	2003 0839 1931
4	129236/1981	KERN JOACHIM FREDRICH CASPER	UNKNOWN	1989 0371 0280

5	T34506/1985	VENTER BAREND JOHANNES M/I	13,000	Printed: 2014/02/25 11:57
6	T30237/1988	BREEDT ALBERTUS JOHANNES J	23,000	1985 1020 0243
7	T76140/1989	AMMONDALE BOERDERY PTY LTD	30,000	1989 2609 1076
8	T36722/1990	NIEKERK GYSBERT JOHANNES VAN	40,000	1990 0538 4885
9	T61700/1994	BESTER LUCAS CORNELIS	70,000	1994 0810 2085
10	T89012/2003	KWEZI INFRASTRUCTURE SERVICES PTY LTD	430,000	2003 0839 1902 2003 0839 1908

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Deeds Office Property

MAROELAPAN, 613, 0 (PRETORIA)



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GENERAL INFORMATION

Deeds Office PRETORIA
 Date Requested 2014/02/06 11:54
 Information Source DEEDS OFFICE
 Reference -

PROPERTY INFORMATION

Property Type FARM
 Farm Name MAROELAPAN
 Farm Number 613
 Portion Number 0
 Local Authority MOLEMOLE LOCAL MUNICIPALITY
 Registration Division LS
 Province LIMPOPO
 Diagram Deed DB183/40
 Extent 799.0715H
 Previous Description
 LPI Code TOLS00000000061300000

OWNER INFORMATION

Owner 1 of 1

Person Type INDIVIDUAL
 Name SCHULENBURG RICHARD
 ID Number 4605035003088
 Title Deed T18171/1995
 Registration Date 1995/03/09
 Purchase Price (R) 598,500
 Purchase Date 1995/01/31
 Share
 Microfilm Reference 1995 0799 3766
 Multiple Properties NO
 Multiple Owners NO

ENDORSEMENTS (3)

#	Document	Institution	Amount (R)	Microfilm
1	B4875/2011	N.T.K. LIMPOPO AGRIC LTD	2,000,000	-
2	VA5183/1999	STANDARD BANK OF SOUTH AFRICA LTD	UNKNOWN	2000 0660 4767
3	LS,613	-	UNKNOWN	1988 1114 0698

HISTORIC DOCUMENTS (4)

#	Document	Owner	Amount (R)	Microfilm
1	B56357/1995	NFDCOR BANK LTD	360,000	1995 0764 2545
2	T6844/1985	VENTER DAVINA	BOEDEL	1996 1177 4133
3	T48767/1980	VENTER IZAK STEPHANUS JOHANNES	UNKNOWN	1985 0338 0049
4	T6846/1985	GRUISPAD LANDGOED PTY LTD	225,000	1995 0328 3081

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UITKOMS, 864, 0 (REMAINING EXTENT) (PRETORIA)

GENERAL INFORMATION

Deeds Office PRETORIA
 Date Requested 2014/02/25 11:58
 Information Source DEEDS OFFICE
 Reference -

PROPERTY INFORMATION

Property Type FARM
 Farm Name UITKOMS
 Farm Number 864
 Portion Number 0 (REMAINING EXTENT)
 Local Authority MOLEMOLE LOCAL MUNICIPALITY
 Registration Division LS
 Province LIMPOPO
 Diagram Deed T65058/994
 Extent 253,8081H
 Previous Description -
 LPI Code T0LSC0000000086400000

OWNER INFORMATION

Owner 1 of 1

Person Type TRUST
 Name RAMALIANE TRUST
 Registration Number 4829/1996
 Title Deed T86768/2013
 Registration Date 2013/10/25
 Purchase Price (R) 5,434,000
 Purchase Date 2013/07/03
 Share -
 Microfilm Reference -
 Multiple Properties NO
 Multiple Owners NO

ENDORSEMENTS (7)

#	Document	Institution	Amount (R)	Microfilm
1	B50860/2013	FIRSTRAND BANK LTD	3,696,000	-
2	K1803/1976S	-	UNKNOWN	-
3	K2310/1976PC	PHELPS DODGE OF AFRICA LTD	UNKNOWN	-
4	K2994/1992S	-	UNKNOWN	1992 0510 3403
5	K323/1971RM	-	UNKNOWN	-
6	K4543/1994S	-	UNKNOWN	1994 0842 4802
7	FROM-PTN7&R/E,PTN3,6	15&R/E,PTN9,652,LS	UNKNOWN	-

HISTORIC DOCUMENTS (5)

#	Document	Owner	Amount (R)	Microfilm
1	B51953/1986	LANDBANK	85,000	2005 0011 2019
2	B68355/1994	REPUBLIC VAN SUID-AFRIKA	140,000	2008 0362 2614
3	K4542/1994S	-	UNKNOWN	1994 0842 4791
4	T65058/1994	SMIT HENDRIK PHILIPPUS	CCT	2008 0362 2467
5	T65058/1994	SMIT PETRONELLA JOHANNA	CCT	2008 0362 2467

DISCLAIMER

Printed: 2014/02/25 11:58

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Appendix E3:

Proof of newspaper advertisement

Appendix E4:

Communication to and from persons
detailed in Point 2 and 3 above

Juanita

From: Juanita <user3@bokamoso.net>
Sent: 18 November 2014 03:48 PM
To: 'tamaphoto@ruraldevelopment.gov.za'
Subject: Fort Klipdam - Public Participation Process
Attachments: Public Notice BA.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached Public notice regarding the *water infrastructure development for agricultural and domestic purposes on the Farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the Farm Uitkoms 864 LS* for the proposed Fort Klipdam Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27) 021 546 2310 | F: (+27) 021 570 5001 | info@bokamoso.net | www.bokamoso.net
36 Lebombo Street, Antika Gardens, Pretoria P.O. Box 11375 (Lynedaya 011)

Juanita

From: Juanita <user3@bokamoso.net>
Sent: 08 May 2014 12:03 PM
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za;
'maphata.ramphele@gauteng.gov.za'; nsingo@environment.gov.za;
ntsoanen@dwa.gov.za; 'central@eskom.co.za'; 'paia@eskom.co.za';
'schmidk@nra.co.za'; 'kumen.govender@gauteng.gov.za';
mmpshe@randwater.co.za; 'nkoneigh@randwater.co.za';
seanegomd@molemole.gov.za; 'daniel.ramokone@transnet.net';
setjied@amanzi.co.za; 'helenevzyl@yahoo.com'
Subject: Fort Klipdam - Public Participation Process
Attachments: Public Notice BA.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached Public notice regarding the *water infrastructure development for agricultural and domestic purposes on the Farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the Farm Uitkoms 864 LS* for the proposed Fort Klipdam Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27) 11 490 3810 | F: (+27) 11 490 3801 | E: info@bokamoso.co.za | www.bokamoso.net
82 Le Bonita Street, Ashlea Gardens, Pretoria, P.O. Box 11775, Midrand 2008

Juanita

From: Juanita <user3@bokamoso.net>
Sent: 12 May 2014 11:24 AM
To: 'mafaf@cdm.org.za'
Subject: RE: Registration as I&AP for Project; water infrastructure development for agriculture and domestic purpose at Maroelapan

Dear Frank Mafa,

Thank you for your response, I have registered Capricorn District Municipality as Interested and/or Affected Party Member for the proposed Fort Klipdam Project.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 348 3810 F: (+27)12 570 5050 E: info@bokamoso.net or www.bokamoso.net
30 Lehmke Street, Ashika Gardens, Pretoria (P.O. Box 11375, Maroelana 0101)

From: Frank MF. Mafa [<mailto:mafaf@cdm.org.za>]
Sent: 12 May 2014 11:02 AM
To: lizelle@mweb.co.za
Subject: Registration as I&AP for Project; water infrastructure development for agriculture and domestic purpose at Maroelapan

Good Morning

Capricorn District Municipality will like to be registered as I&AP for the above mentioned proposed activity .

Mr. Frank Mafa
Environmental compliance and enforcement officer
Capricorn district municipality

E mail: mafaf@cdm.org.za

Tel: 015 294 1286

Cel: 0832732527

Fax: 01162745983

Together we can save our environment

Disclaimer

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Juanita

From: Juanita <user3@bokamoso.net>
Sent: 11 March 2014 02:08 PM
To: 'helenevzyl@yahoo.com'
Subject: Fortklip Dam - Publieke Deelname
Attachments: Landowners letter.pdf

Geagte Burger van Zyl,

Vind asseblief die aangehegde Grond Eienaar brief in verband met die voorgestelde Fortklip Dam Projek.

Baie dankie.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants cc.**

T: +27(0)21 546 3810 | F: +27(0)21 579 5056 | E: info@bokamoso.biz | www.bokamoso.biz
36 Lebonita Street, Ashlea Gardens, Fictoriaal E.S. Box 11375, Maitland 7612

Please consider the environment before printing this email

Fort Klipdam

Our Ref: 9/2/267/0001

Enquiries: Mariagrazia Galimberti
Tel: 021 462 4502
Email: mgalimberti@sahra.org.za
CaseID: 5572

Date: Wednesday August 13, 2014

Page No: 1



Department of Arts and Culture

Interim Comment

In terms of Section 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Bokamoso Environmental Consultants

Bokamoso

P.O. Box 11375

Maroelana

0161

Water infrastructure development for agricultural and domestic purposes on the Farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the Farm Uitkoms 864 LS

Dear Ms De Beer,

Thank you for informing SAHRA of the Basic Assessment process for the Fort Klipdam project. The project is proposing to construct dams and pipelines on Farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the Farm Uitkoms 864 LS.

In terms of the National Heritage Resources Act, no 25 of 1999, heritage resources, including archaeological or palaeontological sites over 100 years old, graves older than 60 years, structures older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resources authority. Before such sites are disturbed by development, it is incumbent on the developer to ensure that a Heritage Impact Assessment is done in terms of Section 38(8) of the NHRA. This report must assess the impact of the proposed development on heritage resources and must provide possible mitigation measures, which may involve recording, sampling and dating sites that are to be destroyed.

Since the area is located over geological formations of low palaeontological significance, no palaeontological impact assessment is requested as part of the heritage impact assessment.

Please ensure to submit the heritage impact assessment to SAHRA as early as possible and/or as part of the draft Basic Assessment Report.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully



The South African Heritage Resources Agency

Street Address: 111 Harrington Street, Cape Town 8000 * Postal Address: PO Box 4637, Cape Town 8000
* Tel: +27 21 462 4502 * Fax: +27 21 462 4509 * Web: <http://www.sahra.org.za>

Fort Klipdam

Our Ref: 9/2/267/0001



Enquiries: Mariagrazia Galimberti
Tel: 021 462 4502
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CaseID: 5572

Date: Wednesday August 13, 2014

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Department of Arts and Culture

Mariagrazia Galimberti
Heritage Officer: Archaeology
South African Heritage Resources Agency

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SAHRA Head Archaeologist
South African Heritage Resources Agency

ADMIN:

Direct URL to case: <http://www.sahra.org.za/node/163389>
(LDEDET, Ref: 12/1/9/1-C83)



The South African Heritage Resources Agency

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Appendix E5:
Minutes of any public and or
stakeholder meetings

N/A

Appendix E6:
Comments and Response Report

WATER INFRASTRUCTURE DEVELOPMENT FOR AGRICULTURAL AND DOMESTIC PURPOSES ON THE FARMS MAROELAPAN 613 LS, DE PUT 611 LS, FORT KLIPDAM 852 LS AND THE REMAINDER OF PORTION 1 OF THE FARM UITKOMS 864 LS

COMMENT AND RESPONSE REPORT-

12/1/9/1-C83

NEAS: LIM/EIA/0000814/2014

Issue	Commentator	Response
<p>Thank you for informing SAHRA of the Basic Assessment process for the Fort Klipdam project. The project is proposing to construct dams and pipelines on Farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the Farm Uitkoms 864 LS.</p> <p>In terms of the National Heritage Resources Act, no 25 of 1999, heritage resources, including archaeological or palaeontological sites over 100 years old, graves older than 60 years, structures older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resources authority. Before such sites are disturbed by development, it is incumbent on the developer to ensure that a Heritage Impact Assessment is done in terms of Section 38(8) of the NHRA. This report must assess the impact of the proposed development on heritage resources and must provide possible mitigation measures, which may involve recording, sampling and dating sites that are to be destroyed.</p> <p>Since the area is located over geological formations of low palaeontological significance, no palaeontological impact assessment is requested as part of the heritage impact assessment.</p> <p>Please ensure to submit the heritage impact assessment to SAHRA as early as possible and/or as part of the draft Basic Assessment Report.</p>	<p>Mariagrazia Galimberti mgalimberti@sahra.org.za SAHRA</p>	<p>Noted.</p>

Appendix E7:
Comments from I&APs on Basic
Assessment (BA) Report

N/A

Appendix E8:
Comments from I&APs on
amendments to the BA report

N/A

Appendix E9:
Copy of the register of I&APs

Nr	Registered Parties	Contact details
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Stakeholders

1	Council Geo-Science	lgrobler@geoscience.org.za
2	SAHRA Mariagrazia Galimberti	mgalimberti@sahra.org.za
3	PHRAG	maphata.ramphela@gauteng.gov.za
4	DWA	nsingo@environment.gov.za Cell: 082 907 9818 ntsoanen@dwa.gov.za
5	Eskom	central@eskom.co.za paia@eskom.co.za
6	SANRAL	schmidk@nra.co.za
7	Randwater	mmpshe@randwater.co.za nkoneigh@randwater.co.za
8	Molemole Local Municipality Mr. Tshianego	seanegomd@molemole.gov.za Tel: 015 501 0243
9	Spoornet	daniel.ramokone@transnet.net
10	Ward Councillor David Setjie	setjied@amanzi.co.za
11	Land Claims	lamaphoto@ruraldevelopment.gov.za Tel: 015 284 6300

Interested and Affected Parties

1	Frank Mafa Capricorn District Municipality	mafaf@cdm.org.za Cell: 083 273 2527 Tel: 015 294 1286

Appendix E10:
Comments from I&APs on the
application

N/A

Appendix E11: Other

**ANNEXURE F:
ENVIRONMENTAL
MANAGEMENT PROGRAMME**



1. Project Outline

1.1 Background

Bokamoso Landscape Architects and Environmental Consultants CC was appointed by the **Ramaliane Trust** to compile an Environmental Management Plan for the construction of dams and a pipeline situated on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS, and the Remainder of Portion 1 of the farm Uitkoms 864 LS, Dendron, Limpopo Province. The Report has been prepared to comply with Section 34 of the National Environmental Management Act (NEMA), 1998 (Act 107 of 1998).

1.2 Project description

The Water infrastructure development entails abstracting water from the Sand River and storing it in an off-stream dam, and transporting the stored water via a 200mm pipeline to several dams to be constructed, for irrigation purposes and for domestic use.

It is furthermore also the intention of the applicant to withdraw water from boreholes for purposes of irrigation and domestic use. Water will be abstracted from Fort Klipdam 852 LS (as indicated on the layout map) and be transported via the pipeline across the Farm Maroelapan 613 LS to be used for domestic purposes on the Farm De Put 611 LS and irrigation on the other farms. The pipeline will in total cover a length of approximately 12.9 km. **(Refer to Figure 1 for the Locality Map and Figure 2 for the Aerial Map).**

Installation of a water pipeline and dams will increase local food production, and in so doing contribute to the GGP. The construction of the dams and pipeline will provide temporary (during construction) as well as permanent job opportunities due to increased crop production that requires harvesting and packaging. The

proposed storage of water in order to increase crop production is also in line with the Molemole Spatial Development Framework.

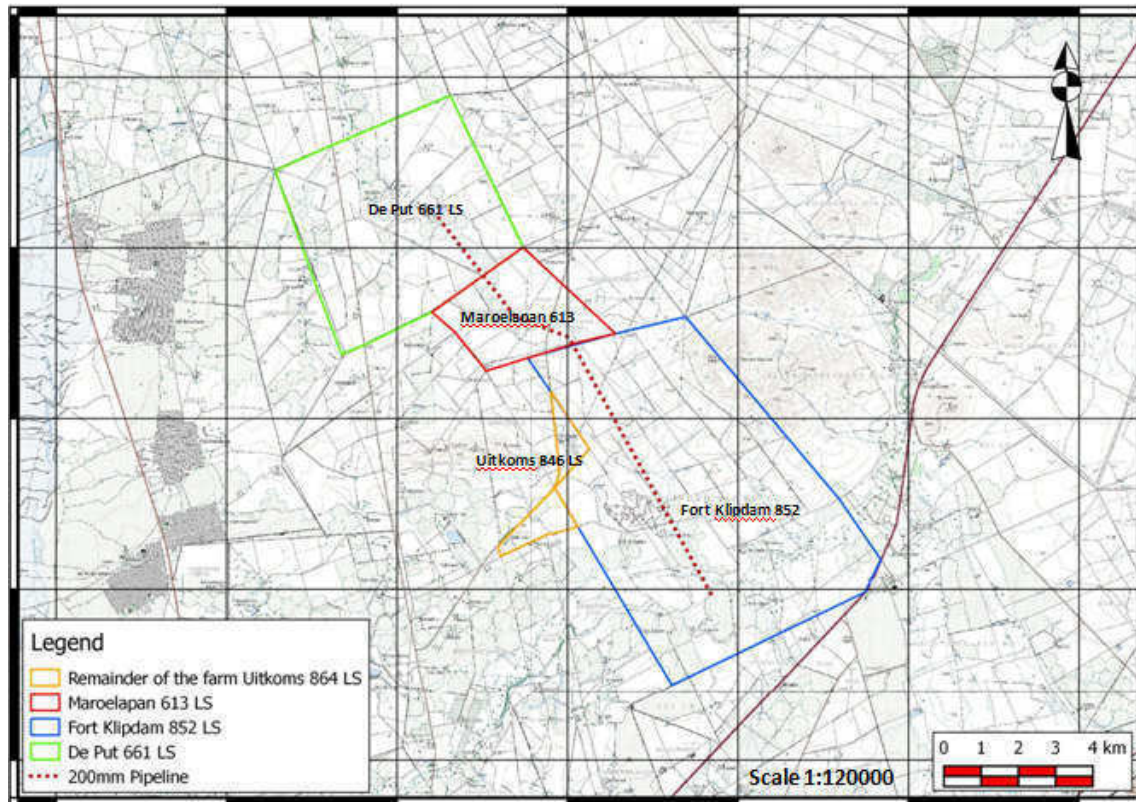


Figure 1: Locality map

According to the 1:50 000 topo-cadastral maps, the Sand River flows through the southern portion of the farm Fort Klipdam from west to east.

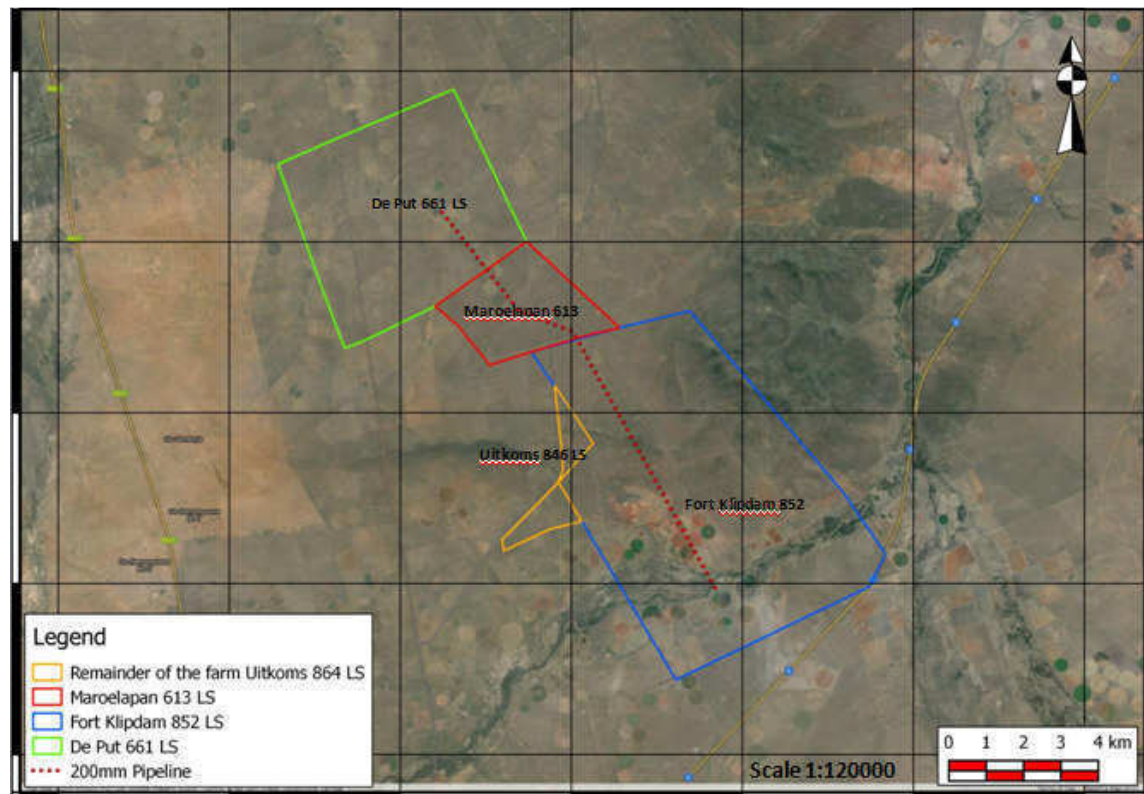


Figure 2: Aerial map

The EMP will be a binding document for purposes of compliance.

1.3 Receiving Environment

Geology:

- The surrounding area is underlain by deeply weathered and fractured Archaean granite from which water abstraction for irrigation and domestic supply occurs.
- The agricultural potential of the site is high due to irrigation infrastructure and good quality soils being present.

Hydrology:

- A non-perennial river and riparian zone is present on the southern boundary of the site. The Sand River drains west to east through Fort Klipdam 852 LS. The Sand River is situated in the quaternary drainage region A71A and is a tributary of the Limpopo River.
- The Sand River is a National Freshwater Ecosystem Protected Area (NFEPA).
- It is not known whether sufficient surplus capacity exists within the Sand River for water abstraction, and therefore a Hydrological assessment which includes a reserve determination is in progress.

Geohydrology:

- According to available data, the surrounding area is underlain by deeply weathered and fractured Archaean granite from which water abstraction for irrigation and domestic supply occurs.
- Extensive irrigation occurs in the central parts of the Sand River Catchment, which is reliant on groundwater resources.

Wetlands:

- No wetlands appear to be present at areas relevant to the proposed construction locations for the dams and the pipeline, however a wetland assessment is underway to confirm the aforementioned.

Fauna and flora:

- The study area falls within a Savanna Biome represented by Makhado Sweet Bushveld and Polokwane Plateau Bushveld.
- No protected or endangered flora species are known to occur within the proposed construction areas, but will be confirmed by an ecological assessment.
- No threatened animal species are known to occur within the proposed construction areas, but will be confirmed by an ecological assessment.

Agricultural:

- The study area comprises of arable land.

Cultural /Historical:

- It is not known whether cultural/historical/archaeological finds are present in the direct vicinity of the proposed construction locations, and therefore a Heritage Impact Assessment has been initiated.

Noise:

- Due to the remote location of the site and the site being located in an agricultural area, it is not foreseen that noise will be of concern, however construction activities shall be limited to daytime hours from Monday to Saturday only.

Air Pollution

- It is not foreseen that dust pollution will be a concern due to limited areas to be cleared for construction purposes.

Traffic:

- Due to the rural setting of the project, increase in traffic is not regarded as concern. Construction activities will occur on private land from Mondays to Saturdays during daylight hours only.

Erosion and loss of topsoil:

- Topsoil removed prior to construction commencing must be stockpiled in designated areas and protected from washing away during flood events, or being damaged by heavy mobile plant.
- Topsoil must be returned to areas where it was removed from upon completion of construction activities for the purpose of rehabilitation.
- Rehabilitated areas should be hydro seeded with Makhado Sweet Bushveld or Polokwane Plateau Bushveld grass species.

Building rubble:

- Building rubble should be temporarily stored in a designated non-sensitive area, outside the aquatic buffer zone.
- Building rubble to be disposed of at a registered landfill site.

Land claims:

- The developer has to inform the Polokwane Land claims commissioner of the intended water infrastructure development.

2. EMP Objectives and Context

2.1 Objectives

The objectives of this plan are to:

- Identify the possible environmental impacts of the proposed activities;
- Develop measures to minimise, mitigate and manage these impacts;
- Meet the requirements of the anticipated Record of Decision of LDEDET and of other Authorities; and
- Monitor the project.

2.2 EMP Context

This EMP fits into the overall planning process of the project by carrying out the conditions of consent set out by the LDEDET. In addition, all mitigation measures recommended in the Basic Assessment Report are included in the EMP.

This EMP addresses the following phases of the proposed water infrastructure development:

- Pre-construction planning phase;

- Construction phase;
- Rehabilitation phase; and
- Operational phase.

3. Monitoring

In order for the EMP to be successfully implemented all the role players involved must have a clear understanding of their roles and responsibilities in the project.

These role players may include the Authorities (A), other Authorities (OA), Developer (D)/ Proponent (P), Environmental Control Officer (ECO), Project Manager (PM), Contractors (C), Environmental Assessment Practitioner (EAP) and Environmental Site Officer (ESO). The Landowners, Interested and Affected Parties (I&APs) and the relevant Environmental and project specialists are also important role players.

3.1 Roles and Responsibilities

Developer (D)/Proponent (P)

The developer/proponent is ultimately accountable for ensuring compliance with the EMP and conditions contained in the RoD. The developer must appoint an independent Environmental Control Officer (ECO), for the duration of the pre-construction and construction phases, to ensure compliance with the requirements of this EMP. The developer must ensure that the ECO is integrated as part of the project team.

Project Manager (PM)

The project Manager is responsible for the coordination of various activities and ensures compliance with this EMP through delegation of the EMP to the contractors and monitoring of performance as per the Environmental Control Officer's monthly reports.

Environmental Control Officer (ECO)

An independent Environmental Control Officer (ECO) shall be appointed by Ramalane Trust, for the pre-construction, construction and rehabilitation phase of the dams and pipeline, to ensure compliance with the requirements of this EMP.

- The Environmental Control Officer shall ensure that the contractor is aware of all the specifications pertaining to the project;
- Any damage to the environment must be repaired as soon as possible after consultation between the Environmental Control Officer, Consulting Engineer and Contractor;
- The Environmental Control Officer shall ensure that the developer staff and/or contractor are adhering to all stipulations of the EMP;
- ECO must audit the site weekly during construction and report monthly and send monthly reports to LDEDET.
- The Environmental Control Officer shall be responsible for monitoring the EMP throughout the project by means of site visits and meetings. This should be documented as part of the site meeting minutes;
- The Environmental Control Officer shall be responsible for the environmental training program;
- The Environmental Control Officer shall ensure that all clean up and rehabilitation or any remedial action required, are completed prior to transfer of properties; and
- A post construction environmental audit is to be conducted to ensure that all conditions in the EMP have been adhered to.

Contractor (C):

The contractors shall be responsible for ensuring that all activities on site are undertaken in accordance with the environmental provisions detailed in this document and that sub-contractor and laborers are duly informed of their roles and responsibilities in this regard.

The contractor will be required, where specified to provide Method Statements setting out in detail how the management actions contained in the EMP will be implemented.

The contractors will be responsible for the cost of rehabilitation of any environmental damage that may result from non-compliance with the environmental regulations.

Environmental Site Officer (ESO):

The ESO is appointed by the developer as his/her environmental representative to monitor, review and verify compliance with the EMP by the contractor. The ESO is not an independent appointment but must be a member of the contractor's management team. The ESO must ensure that he/she is involved at all phases of the construction (from site clearance to rehabilitation).

Authority (A):

The authorities are the relevant environmental department that has issued the Environmental Authorization. The authorities are responsible for ensuring that the monitoring of the EMP and other authorization documentation is carried out by means of reviewing audit reports submitted by the ECO and conducting regular site visits.

Other Authorities (OA):

Other authorities are those that may be involved in the approval process of the EMP or related applications such as the Water Use License Application submitted to the Department of Water Affairs.

Environmental Assessment Practitioner (EAP):

According to Section 1 of NEMA the definition of an environmental assessment practitioner is “the individual responsible for the planning, management and coordination of environmental impact assessments, strategic environmental assessments, environmental management plans or any other appropriate environmental instruments through regulations”.

3.2 Lines of Communication

The Environmental Control Officer in writing should immediately report any breach of the EMP to the Project Manager. The Project Manager should then be responsible for rectifying the problem on-site after discussion with the contractor. Should this require additional cost, then the developer should be notified immediately before any additional steps are taken.

3.3 Reporting Procedures to the Developer/Proponent

Any pollution incidents must be reported to the Environmental Control Officer immediately (within 12 hours). The Environmental Control Officer shall report to the Developer on a regular basis (site meetings).

3.4 Site Instruction Entries

The site instruction book entries will be used for the recording of general site instructions as they relate to the works on site. There should be issuing of stop work

order for the purposes of immediately halting any activities of the contractor that may pose environmental risk.

3.5 ESO (Environmental Site Officer) Diary Entries

Each of these books must be available in duplicate, with copies for the Engineer and Environmental Site Officer. These books should be available to the authorities for inspection or on request. All spills are to be recorded in the Environmental Site Officer's diary.

3.6 Methods Statements

Methods statements from the contractor will be required for specific sensitive actions on request of the authorities or ECO. All method statements will form part of the EMP documentation and are subject to all terms and conditions contained within the EMP document. For each instance where it is requested that the contractor submit a method statement to the satisfaction of ECO, the format should clearly indicate the following:

- What - a brief description of the work to be undertaken;
- Who – who will be responsible for executing the work;
- Where - a description/sketch map of the locality of work; and
- How - a detailed description of the process of work, methods and materials to be used;
- When - the sequencing of actions with due commencement dates and completion date estimate.

The contractor must submit the method statement before any particular construction activity is due to start. Work may not commence until the method statement has been approved by the ECO.

3.7 Record Keeping

All records related to the implementation of this management plan (e.g. site instruction book, ESO dairy, methods statements etc.) must be kept together in an office where it is safe and can be retrieved easily. These records should be kept for two years at any time be available for scrutiny by any relevant authority.

4. Applicable legislation

4.1 The National Water Act, 1998 (Act No. 36 of 1998)

The purpose of this Act is to ensure that the nation's water resources are protected, used, developed, conserved, managed and controlled in ways that take into account, amongst other factors, the following:

- Meeting the basic human needs of present and future generations;
- Promoting equitable access to water;
- Promoting the efficient, sustainable and beneficial use of water in the public interest;
- Reducing and preventing pollution and degradation of water resources;
- Facilitating social and economic development; and
- Providing for the growing demand for water use.

Impact on proposed activity:

Significant – Section 21 water use license application is required for uses (a), (b), (c), and (i) for the construction of the dams for storage, for taking water from the Sand River and groundwater abstraction from boreholes, and for altering the bed and banks, and diverting water from the Sand River. It is anticipated that one or more of the dams to be constructed will be dams with a safety risk.

4.2 National Environmental Management Act, 1998 (Act No. 107 of 1998)

The NEMA is primarily an enabling Act in that it provides for the development of environmental implementation plans and environmental management plans. The principles listed in the Act serve as a general framework within which environmental management and implementation plans must be formulated.

The principles in essence state that environmental management must place people and their needs at the forefront of its concern and that development must be socially, environmentally and economically sustainable.

Impact on proposed activity:

Significant – The application for the proposed development relates to activities listed under Notice **No. R544 & R546**, therefore a Basic Assessment Report is being submitted to the Limpopo Department of Economic Development, Environment and Tourism for consideration.

4.3 National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004)

The purpose of the Act is "To reform the law regulating air quality in order to protect the environment by providing reasonable measures for the prevention of pollution and ecological degradation and for securing ecologically sustainable development while promoting justifiable economic and social development; to provide for national norms and standards regulating air quality monitoring, management and control by all spheres of government; for specific air quality measures; and for matters incidental thereto."

Impact on proposed activity:

Insignificant – During the construction phase of the proposed development clearing will be required where the proposed pipeline will be installed for construction of plinths. The expected impact of dust pollution on the environment and surrounding landowners is expected to be very low due to the remote location of the study area, but the potential significance is addressed in the draft EMP.

4.4 National Environmental Management Act: Biodiversity Act, 2004 (Act No. 10 of 2004)

The purpose of the Biodiversity Act is to provide for the management of South Africa's biodiversity within the Framework of the NEMA and the protection of species and ecosystems that warrant National protection. As part of the implementation strategy, the National Spatial Biodiversity Assessment was developed.

Impact on proposed activity:

Significant – According to the Limpopo Conservation Plan Biodiversity Areas, the proposed pipeline will transect an area classified as Ecological Support Area 1. The riparian zone of the Sand River from where water will be abstracted is classified as a Critical Biodiversity Area 2.

4.5 National Environmental Management: Protected Areas Act, 2003 (Act No. 57 of 2003)

The purpose of this Act is to provide for the protection, conservation, and management of ecologically viable areas representative of South Africa's biological biodiversity and its natural landscapes.

Impact on proposed activity:

Significant – The Sand River from where water is to be abstracted is a National Freshwater Ecological Protected Area (NFEPA).

4.6 Limpopo Conservation Plan

The purpose of the Limpopo Conservation Plan version 2 is to develop the spatial component of a bioregional plan (i.e. map of Critical Biodiversity Areas (CBA) and associated land-use guidelines).

Impact on proposed activity:

Significant – According to the Limpopo Conservation Plan, the proposed pipeline will transect a buffer zone for large rivers as well as vegetation units of conservation concern.

4.7 National Heritage Resources Act, 1999 (Act No. 25 of 1999)

The National Heritage Resources Act legislates the necessity and heritage impact assessment in areas earmarked for development, which exceed 0.5 ha. The Act makes provision for the potential destruction to existing sites, pending the archaeologist's recommendations through permitting procedures. Permits are administered by the South African Heritage Resources Agency (SAHRA).

Impact on proposed activity:

Significant – Due to the linear extent of the proposed pipeline exceeding 300m, and the proposed dam exceeding 0.5ha in surface area, the South African Heritage Resources Agency (SAHRA) has to be notified. A historical fort is situated within the study area, from where the farm acquired its name – Fort Klipdam.

SAHRA was notified and requested that a Heritage Impact Assessment (HIA) be conducted excluding Palaeontology.

If any remains/cultural/historical finds are exposed or uncovered during the construction phase, it should immediately be reported to the South African Heritage Resources Agency (SAHRA). Burial remains should not be disturbed or removed until inspected by an archaeologist. Refer to draft EMP.

4.8 National Veldt and Forest Fire Act, 1998 (Act No. 101 of 1998)

The purpose of this Act is to prevent and combat veldt, forest, and mountain fires throughout the Republic. The Act provides for a variety of institutions, methods, and practices for achieving the prevention of fires.

Impact on proposed activity:

Significant – Construction workers might smoke and this poses the risk of a fire to crops. No open fires may be lit on site and no cigarette butts may be disposed of in the veldt.

4.9 Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983)

This Act provides for control over the utilization of the natural agricultural resources of the Republic in order to promote the conservation of the soil, the water sources,

the vegetation and the combating of weeds and invader plants; and for matters connected therewith.

Impact on proposed activity:

Significant – The study area comprises of arable agricultural land. The current land use (agriculture) will not be altered by the proposed development, but will be augmented by it.

4.10 The Municipal Systems Act, 2000 (Act No. 32 of 2000)

This Act was introduced to provide for the core principles, mechanisms and processes that are necessary to enable municipalities to move progressively towards the social and economic upliftment of local communities, and ensure universal access to essential services that are affordable to all.

According to the Capricorn District Municipality Integrated Development Plan 2012/2013, access to water is a priority within the Molemole Local Municipality within which the study area occurs, and economic development is a priority within both the Capricorn District Municipality as well as the Molemole Local Municipality.

According to the Molemole Local Municipality Spatial Development Framework (SDF) 2013/2014 access to water, economic development and environmental management are priority focus areas. According to the SDF, the availability of arable land suitable for horticulture, such as vegetables, potatoes, and tomatoes is a **strength**, however, the lack of sufficient water to expand the agricultural sector is a **weakness** which can be ameliorated by **opportunities** such as integrating water harvesting and efficiency methods into agricultural activities e.g. recycling, and building **of artificial dams**.

Impact on proposed activity:

Significant – the construction activities are aligned with the Molemole Local Municipality Spatial Development Framework in terms of focussing on agriculture and constructing artificial dams to ensure water supply.

4.11 National Road Traffic Act, 1996 (Act No. 93 of 1996)

This Act provides for all road traffic matters, which shall apply uniformly throughout the Republic and for matters connected therewith.

Impact on proposed activity:

Not significant – The proposed pipeline will cross a farm road called the Bylsteel Road. As the road is not a national, provincial, or district road, permission from SANRAL and provincial roads department is not required. If traffic on the Bylsteel Road will be disrupted due to water infrastructure construction activities, the Local municipality as well as local residents will have to be informed of the planned disruption, well in advance. Refer draft EMP.

4.12 National Environmental Management Waste Act, 2008 (Act No. 59 of 2008)

The Act provides for regulating waste management in order to protect health and the environment by providing reasonable measures for the prevention of pollution and ecological degradation and for securing ecologically sustainable development.

Impact on proposed activity:

Not significant – The construction and operation of the proposed development are not subjected to any activity as listed in Category A, B or C of NEM: WA Listed

Activities, 2013, however waste generated will be managed in accordance with measures stipulated in this environmental management plan.

4.13 Restitution of Land Rights Act, 1994 (Act No. 22 of 1994) and Restitution of Land Rights Amendment Act, 2014 (Act No. 15 of 2014)

The Act provides for the restitution of rights in land to persons or communities dispossessed of such rights after 19 June 1913 as a result of past racially discriminatory laws or practices; to establish a Commission on Restitution of Land Rights and a Land Claims Court; and to provide for matters connected therewith.

Impact on proposed activity:

Significant - The developer has given the regional land claims commissioner notice of the intended development.

4.14 The Deeds Registries Act, 47 of 1937

The Act was created to consolidate and amend the laws in force in the Republic relating to the Registration of deeds. The act caters for the registration of servitudes.

Impact on proposed activity:

Significant – Servitudes to be registered, if applicable.

4.15 Occupational Health & safety Act, 85 of 1993

The Act was created to provide for the health and safety of persons at work and for the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work; to establish an advisory council for occupational health and safety; and to provide for matters connected therewith.

Implications for the proposed development:

Significant – Construction activities are to be carried out in accordance with this law and applicable regulations.

5. Mitigation Measures and Responsibility per project phase

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Pre-construction Phase							
Design and planning	EMP adherence	To make the EMP enforceable under the general conditions of the contract	The EMP document must be included as part of the tender documentation for all contractor appointments.	The EMP is included as part of the tender documentation	Applicant Contractor	Prior to publishing tender	4.2
	Dam and pipeline design	To ensure stability of structures	The detail design of the water infrastructure should be approved by DWA	Written approval by DWA	Engineer	Before construction activities commence	4.1
	Dam designs	Prevent scouring and erosion of Sand River	The detail designs of the water infrastructure should include the Rehabilitation of the Sand River.	Suitable riparian rehabilitation measures included in design	Engineer	Before construction activities commence	4.1 and 4.2
Fauna and Flora	Damage to indigenous vegetation and disturbance to fauna	To prevent negative impact on protected fauna and flora	Conduct ecological assessment of proposed dam and pipeline construction sites.	Ecological Assessment to be conducted prior to construction commencing	Developer/EAP	Once-off	4.2, 4.4, 4.5 and 4.6
		To prevent the destruction of protected fauna and flora discovered during construction	Construction workers should be made aware of procedures to follow if any protected species are discovered during any phase of the construction. Procedures as stipulated at the end of the EMP should be followed.	Construction personnel undergo protected species awareness training	ECO/Project Manager	Before construction activities commence and as and when required	4.4, 4.5, and 4.6
			Sensitive areas are to be fenced off in assistance with the ECO, prior to construction commencing and will serve as a no-go areas .	Sensitive areas and indigenous flora protected	ECO/Project Manager	Before construction activities commence	4.4, 4.5, and 4.6
		To prevent and reduce the negative impact on fauna species residing on the site	No fauna species may be disturbed, trapped, hunted, or killed during the construction phase. No indigenous flora may be removed. Conservation orientated clauses should be built into contracts for construction personnel, complete with penalty clauses for non-compliance.	Conservation orientated clause occurs in contracts with contractors.	Developer/Project Manager	Before construction activities commence	4.4, 4.5, and 4.6
		To prevent the invasion of the area	Alien invaders must be eradicated before, during and after construction activities. A clause to this effect	Alien plant eradication	Developer/Project	Before construction	4.4 and 4.9

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Pre-construction Phase							
		with alien invaders	should be built into contracts for construction personnel, complete with penalty clauses for non-compliance.	clause occurs in contracts with contractors.	Manager	activities commence	
Geology and Soils	Erosion and Siltation	To prevent the unnecessary loss of soil through poor management	Suitable locations should be selected on site to place the topsoil as well as spoil stockpiles as to avoid release of materials. All stockpiles must be appropriately positioned and managed in line with good engineering principles.	Areas for stockpiles are marked out at suitable locations.	Contractor/ ECO	Before construction activities commence	4.1, 4.2 and 4.9
			Provision of earth bunds or sand bags in areas where a large amount of exposed soils exist is required.	Earth bunds constructed to protect exposed soils during construction.	Contractor	Before or as soon as construction activities commence	4.1, 4.2 and 4.9
			The construction works shall be properly planned to minimise soil excavation during rainy seasons to prevent soil erosion from exposed soil surfaces.	No visible signs of erosion and sedimentation	Contractor	Before or as soon as construction activities commence	4.1, 4.2 and 4.9
			Make construction workers aware of sediment controls and the importance prior to work commencing.	Contractors have knowledge of purpose of sediment control	ECO/ Site supervisor	Before or as soon as construction activities commence	4.1, 4.2 and 4.9
			Suitable locations should be selected on site to place the topsoil and subsoil stockpiles as to avoid release of materials into the drainage channels.	No visible signs of erosion and sedimentation	Contractor	Before or as soon as construction activities commence	4.1, 4.2 and 4.9
Ecological integrity	Ecological damage	Avoid erosion and disturbance to indigenous vegetation	Designated access point and routes shall be determined for the construction vehicles and designated areas for storage of equipment. Clearly mark the site access point and routes on site to be used by construction vehicles. Provide an access map to all contractors whom in turn must provide copies to the construction workers. Instruct all drivers to use access point and determined route.	Access to must be clearly marked prior to construction commencing	Contractor	Before construction activities commence	4.2, 4.4, 4.5, 4.6 and 4.9
Aesthetics	Waste generation	To control the temporary storage of waste	Temporary waste storage locations on site shall be determined. These storage points shall be accessible by waste	Waste storage locations marked out and	Contractor/ ESO	Before construction activities	4.1, 4.2, and 4.12

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Pre-construction Phase							
			removal trucks and these points should not be located in sensitive areas, areas highly visible from the properties of the surrounding land-owners/tenants or in areas where the wind direction will carry bad odours across the properties of adjacent tenants or landowners. Waste storage requirements must be submitted to the Contractor prior to construction. This must be monitored.	suitable bins are provided for waste at these locations.		commence	
	Noise generation	To minimise the noise impact associated with the proposed construction activities	Construction activities may only take place during " normal working hours " which are from "sunrise to sunset", Monday through Saturday. Non-working hours and days must be highlighted in the project document i.e. Sundays, public holidays etc.	Contractors working hours must be stipulated in the contract.	Developer/ Project Manager	Before construction activities commence	4.2 and 4.3
Cultural heritage	Loss of or damage to cultural Resources	Preserve cultural historic sites and finds	Inform Provincial Heritage Resources Authority of planned construction activities in terms of section 38 of the National Heritage Resources Act. Conduct Heritage Impact Assessment if requested to do so.	Comment/ Approval received from Province	Developer/EAP	Once-off	4.2 and 4.7
			Heritage sites should be demarcated.	Prior to construction commencing	Developer/EAP	Once-off	4.2 and 4.7
Land	Land claims	Land claims commissioner informed of planned development	Inform local land claims commissioner of the intended development.	Response received prior to development	Developer/EAP	Once-off	4.13
Land	Servitudes required	Servitudes claimed	Claim servitude for the proposed pipeline, if required.	Servitude allowed and registered	Developer/EAP	Once-off	4.1 and 4.14
Hydrology	Sand River reserve	Confirm sufficient water available for proposed development over and above sustaining the ecological reserve	Conduct Hydrological study including reserve determination to establish whether Sand River has sufficient water for the development, over and above sustaining the ecological and human reserve.	Hydrological assessment establishes Sand River has spare capacity	Developer/EAP	Once-off	4.1, 4.2, 4.4, 4.5 and 4.6
	Pollution of ground and surface water by hydrocarbons	Prevent pollution of ground and surface water by hydrocarbons	Contractor to provide drip trays and spill kits for all mobile plant operating on site.	Clause occurs in contracts with contractors.	Developer/ Project Manager	Before construction activities commence	4.1 and 4.2

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
Fauna and Flora	Loss of Vegetation, and topsoil	To minimize damage to/loss of vegetation, and retain quality of topsoil	Construction site to be established under supervision of ECO/ESO.	Minimal vegetation removed/damaged during site establishment	Contractor/ECO	Before any construction activity commences	4.2, 4.4, 4.5, 4.9
Geology and soils	Loss of Vegetation, and topsoil	Strip topsoil to depth of 150mm	Areas where construction is to take place is to be stripped of topsoil to a depth of at least 150mm .	Vegetation only removed in designated areas. Topsoil stripped to 150mm.	Contractor/ECO	Before any construction activity commences	4.2, 4.4, 4.5, 4.9
	Loss of topsoil	To prevent the loss of topsoil To prevent soil and materials being tracked onto the road.	Stockpiling of topsoil will only be done in designated areas where it will not interfere with the natural drainage paths of the environment and must not be higher than 1,5 m. In order to minimise erosion of topsoil and siltation and disturbance to existing vegetation, it is recommended that stockpiling be done in already disturbed/exposed areas. Remove vegetation only in areas designated during the planning stage and for the purpose of construction.	No loss of topsoil. Excavated materials correctly stockpiled < 1.5m high. No visible signs of erosion of topsoil.	Contractor/ESO	Before construction commences in a designated area.	4.2, 4.4, 4.5, 4.9
Fauna and Flora	Damage to indigenous flora and animals	To protect the existing fauna and flora	Establish wheel wash or shake down for vehicles at site entrance. All exotic invaders and weeds must be eradicated. Snaring and hunting of fauna by construction workers on or adjacent to the study area are strictly prohibited and offenders shall be prosecuted. Wood harvesting of any trees or shrubs on the study area or adjacent areas shall not be allowed. If any red data species are discovered during construction, procedures as stipulated at the end of the EMP should be followed.	Alien vegetation removed No measurable signs of habitat destruction	Contractor/ESO	Continuous	4.2, 4.4 and 4.9
			Any areas that have been fenced off in assistance with the ECO will be No-Go areas during and after construction.	Minimal damage to indigenous vegetation			
	Spread of invasive and	Spread of weed	Ensure that materials used for mulching and fertilisers are certified weed free. Collect certifications where	Weed growth controlled	Contractor/ESO	Continuous	4.2, 4.4 and 4.9

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
	alien vegetation		available. Control weed growth that appears during construction				
Hydrology	Pollution of ground and surface water	Prevent the pollution of the ground- and surface water	<p>Chemical toilets may not be placed within the aquatic buffer zone.</p> <p>At least one chemical toilet must be available for every 15 persons at each construction area. The contractor shall keep the toilets in a clean, neat, and hygienic condition. Toilets provided by the contractor must be easily accessible and a maximum of 50 m from the working area to ensure they are utilized. The contractor (who must use reputable toilet-servicing company) shall be responsible for the cleaning, maintenance and servicing of the toilets. The contractor (using reputable toilet-servicing company) shall ensure that all toilets are cleaned and emptied before the builders' or other public holidays. No person is allowed to use any other area than chemical toilets. No French drain systems may be installed. No chemical or waste water must be allowed to contaminate the run-off on site. The chemical toilets may not be placed in close proximity of adjacent developments to prevent odours.</p>	<p>Toilets are located away from drainage lines.</p> <p>Workforce use toilets provided.</p> <p>Chemical toilets are clean and maintained.</p>	Contractor/ ESO	Before construction activities commence	4.1, 4.2, and 4.12
		Prevent pollution of ground and surface water by hydrocarbons from mobile plant	<p>Drip trays should be provided for all mobile plant on site for the construction period, while parked;</p> <p>All mobile plant should be equipped with a hydrocarbon spills kit to facilitate cleaning up any spills as a result of a breakdown;</p> <p>An impermeable plastic sheet must be placed underneath the mobile plant to be worked on to prevent ingress of hydrocarbons into soil or water; Any spillages on the impermeable sheet must be cleaned with a spills kit prior to removing the sheet. No leaking vehicle shall be allowed on site. The mechanic/the mechanic of the appointed contractor must supply the environmental officer with</p>	<p>No signs of hydrocarbon spillages on site.</p> <p>The contractor must prove vehicles have been serviced and do not have any leaks.</p>	Contractor/ ESO	Continuous	4.1, 4.2 and 4.12

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
			a letter of confirmation that the vehicles and equipment are leak proof.				
Hydrology	Pollution of ground and surface water	To minimize pollution of surface and groundwater resources due to spilling of hazardous materials.	Hydrocarbons and chemicals must be confined to specific secured areas within the site camp. These areas must be banded with adequate containment (at least 1.5 times the volume of the substance stored) for potential spills or leaks. All spilled hazardous substances must be contained in impermeable containers for removal to a licensed hazardous waste site. No bins containing organic solvents such as paint and thinners shall be cleaned on site. All spillages must be cleaned up with spills orb product and contaminated soil removed as hazardous waste. Hazardous waste must be disposed of by a registered contractor at an appropriately registered disposal site.	No pollution of the environment by hazardous substances visible on site	Contractor/ ESO	Continuous	4.1, 4.2, 4.4, 4.5, and 4.12
		To minimize pollution of surface and groundwater resources by cement	The mixing of concrete shall only be done at specifically selected sites outside the aquatic buffer zone, on mortar boards or similar structures to prevent run-off into surrounding drainage lines, streams, and natural vegetation.	No evidence of cement contaminated soil on the construction site	Contractor/ ESO	Continuous	4.1, 4.2, 4.4, 4.5, and 4.12
		To minimize pollution of surface and Groundwater resources due to effluent	No effluent (including effluent from any storage areas) may be discharged into any water surface or groundwater resource.	No evidence of contaminated water resources	Contractor/ ESO	Continuous	4.1, 4.2, 4.4, 4.5, and 4.12
Morphology	Scouring and erosion of river bed and banks	To prevent scouring and erosion of river bed and banks due to impeding structure	Reno mattresses or suitable rehabilitation methods shall be applied where the Sand River bed and banks have been disturbed by construction activities.	Rehabilitation structures visible in river bed and on banks	Contractor/ ESO	During construction	4.1 and 4.2

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
Aesthetic	Waste generation - Visual impact and air pollution	To minimise the visual impact of the proposed activity	Waste storage locations and stockpile areas should not be in areas highly visible from the properties of the surrounding land-owners/tenants or in areas where the wind direction will carry bad odours across the properties of adjacent tenants or landowners.	Visual impact and bad odours minimised	ECO	Continuous	4.2, 4.3 and 4.12
	Waste generation	To prevent unhygienic usage on the site and pollution of the natural assets	Weather proof waste bins must be provided and emptied regularly. The contractor shall provide labourers to clean up the contractor's camp and construction site on a daily basis. Waste storage points should be accessible by waste removal trucks and these points should be located in already disturbed areas/areas not highly visible from the properties of the surrounding land-owners/in areas where the wind direction will not carry bad odours across the properties of adjacent landowners. This site should comply with the following: <ul style="list-style-type: none"> • Skips for the containment and disposal of waste that could cause soil and water pollution, i.e. paint, lubricants, etc.; • Small lightweight waste items should be contained in skips with lids to prevent wind littering; and • Bunded areas for containment and holding of dry building waste. No solid waste may be disposed of on the site. No waste materials shall at any stage be disposed of in the open veldt, adjacent properties or in sensitive areas. The storage of solid waste on the site, until such time as it may be disposed of, must be in a manner acceptable to the local authority and the Department of Water Affairs (DWA). Cover any waste that is likely to wash away or contaminate storm water.	No waste bins overflowing No litter visible on the site	Contractor/ ESO	Continuous	4.2, 4.3 and 4.12
	Waste generation	Recycle material where possible and correctly dispose of unusable wastes	Waste shall be separated into recyclable and non-recyclable waste, and shall be separated as follows: <ul style="list-style-type: none"> • General waste; • Building rubble; and • Reusable /recyclable material. Recyclable waste shall preferably be deposited in	Sufficient containers available on site No visible signs of pollution	Contractor/ ESO	Continuous	4.2, and 4.12

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
			separate bins. All solid must be removed to a permitted waste disposal site on a weekly basis. Keep records of waste generated, reused, recycled, and disposed for future reference. Provide information to ECO.				
Ecological integrity	Increased fire risk to site and surrounding areas	To decrease fire risk	No open fires are allowed on site. Smoking is only allowed in designated areas (signposted) and cigarette buds may not be disposed of in the open veldt. Fire extinguishers to be provided in all vehicles and fire beaters must be available on site. Emergency numbers/contact details must be available on site, at the site camp and with each supervisor.	No signs of burnt veldt. Fire beaters present in vehicles and on site. Emergency numbers displayed.	Contractor/ ESO	Continuous	4.8
Geology and soils	Stability of structures	To ensure the stability of structures to be constructed	The precautionary measures and foundation design from the involved geotechnical engineers must be implemented during construction of structures.	No signs of collapse of structures	Contractor/ Engineer	Continuous	4.1
	Erosion and siltation	To prevent erosion , siltation & water pollution	Mark out the areas to be excavated prior to excavation commencing. Unnecessary clearing of flora resulting in exposed soil prone to erosive conditions should be avoided. Provision of earth bunds or sand bags in areas where large amounts of exposed soils exist is required. Construction work must be properly programmed to minimize soil excavation in the rainy season. All stockpiles must be managed in accordance with good engineering principles. It must be positioned appropriately and be protected from run-off. Existing access roads only, may be used to gain access to site and travel on site. All surfaces that are susceptible to erosion, shall be protected either by cladding with biodegradable material or with the top layer of soil being seeded with grass seed/planted with a suitable groundcover. Large exposed areas during the construction phases should be limited. Where possible areas earmarked for construction during later phases should remain covered with vegetation coverage until the actual construction phase. This will prevent unnecessary	No erosion scars All damaged areas successfully rehabilitated Earth bunds present Drainage channels established Cut-off drains excavated Stockpiles covered and sediment fence erected around stockpiles	Contractor ESO	Continuous	4.1, 4.2, 4.4, 4.5 and 4.9

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
			erosion and siltation in these areas. All embankments must be adequately compacted and planted with grass to stop any excessive soils erosion and scouring of the landscape. Cover stockpiles and surround downhill sides with a sediment fence to stop materials washing away.	Stockpiles suitably covered and sediment fence erected			
	Compaction of soil	To prevent the compaction of valuable soils due to traffic and equipment	Construction vehicles should only use the designated routes as determined in the pre-construction phase. Topsoil stripped should be stockpiled in areas where this material will not be damaged, removed, or compacted. This stockpiled material should be used for the rehabilitation of the site. All compacted areas should be ripped prior to them being rehabilitated by the contractor.	No evidence of driving over stockpiled topsoil.	Contractor ESO	Continuous	4.2 and 4.9
	Contamination of soil	Prevent contamination of soil	There should not be any unnecessary vehicle maintenance on site and if a vehicle needs to be serviced it should be sent to a registered/certified vehicle garage. Should the soil be contaminated by the leaking of fuel the following should apply: The contaminated soil should be removed to a depth of 200 mm and disposed of as hazardous waste. Thereafter the area should be treated with an organic solvent.	No vehicle maintenance occurring on site. No signs of soil pollution	Contractor ESO	Continuous	4.2 and 4.9
Social and Aesthetic	Noise impact	To maintain noise levels below "disturbing" as defined in the national and provincial Noise Regulations	Construction activities shall only take place during working hours " which are between sunrise to sunset, Monday through Saturday.	No complaints from surrounding residents and I & APs	Contractor/ ESO	Continuous	4.2 and 4.3
	Dust impact	Minimise dust from the site	Dust pollution could occur during the construction works, especially during the dry months. Regular and effective dust suppression of working areas (especially during the dry and windy periods) must be carried out to avoid dust pollution, impacting on adjacent residential areas and creating dangerous driving conditions on nearby roads. If necessary, construction areas and access roads should be watered in the mornings and afternoons.	No visible signs of dust pollution No complaints from surrounding residents and I & APs	Contractor/ ESO	Continuous	4.2 and 4.3

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
	Safety and security	To ensure the safety and security of the public	<p>Signage indicating the operations of heavy vehicles on access roads and on the construction site is to be erected.</p> <p>Construction personnel may not stay over on site. The following actions would assist in management of safety along the road:</p> <ul style="list-style-type: none"> ▪ Adequate road traffic signs; ▪ Erect proper signs indicating the danger of the excavation in and around the site; and ▪ All areas that are excavated to a depth of 1.5 m and more must be marked with barrier tape to prevent injury. <p>No fires are permitted on site.</p>	<p>Traffic signs are visible</p> <p>No signs of sleeping quarters on site</p> <p>Barrier tape erected around excavations</p> <p>No detrimental fire hazards</p>	Contractor/ ESO	Continuous	4.11 and 4.15
	Influx of people from other areas	Prevent the influx of people from other areas	It is recommended that (where possible) only people from the local communities in and around the area are employed on the construction site.	People from local community employed	Contractor	Continuous	4.10
Safety	Electrocution	Compliance with Eskom clearance standards	Contractor supervisor to be present during construction of pipeline underneath the Eskom line. Supervisor to ensure Eskom clearances are adhered to. Supervisor to ensure mobile plant drivers are aware of emergency procedure to follow in case mobile equipment comes into contact with electrical power line.	No injuries due to electricity	Contractor/ ESO	Once off	4.15
Social	Public use of Bylsteel Road	No interruption of traffic flow on the Bylsteel Road due to construction of pipeline	Developer to inform local municipality of planned construction of pipeline underneath the Bylsteel Road. Developer to inform land owners of possible closure of Bylsteel Road for construction of pipeline.	No complaints from I&APs	Developer	Once off	4.11 and 4.15
Ecological reserve	Water available for ecological reserve and downstream users	Continuous flow in sand River during construction	Discuss possible disruptions of flow in Sand River with affected parties to determine most convenient times for flow disruptions and warn affected parties well in advance of dates that flow disruptions will occur. Divert flow away from construction area in order to ensure continued water supply to downstream water users.	No complaints from I & APs	Contractor/ ESO	Continuous	4.1, 4.2, 4.4, and 4.5
Cultural heritage	Loss of or damage to cultural Resources	Preserve cultural historic sites and finds	If any features are discovered during construction activities, the correct "procedures for an Environmental incident" (at the end of this EMP) must be followed.	No destruction of or damage to graves archaeological sites	Contractor/ ESO/ ECO	Continuous	4.2 and 4.7

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Construction Phase							
Hydrology	Maintaining base flow in the Sand River	Only take water from river during flood conditions	Install mechanism where water will be abstracted from in order to control volume abstracted . Abstraction should only take place during flood conditions.	Volume control mechanism installed	Contractor/ ESO	Once off	4.1 and 4.2

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Decommissioning/Rehabilitation Phase							
Geology and soils	Loss of soil	Ensure rehabilitation of the site	Compacted soils shall be ripped at least 200 mm deep. All clumps and rocks larger than 30 mm diameter shall be removed from the soil to be rehabilitated. The soil shall be levelled before seeding Hydro-seed the soil with grass species indigenous to Makhado Sweet Bushveld and Polokwane Plateau Bushveld. Watering shall take place at least once per day for the first 14 days until germination of seeds have taken place. Thereafter watering should take place at least for 20 minutes every 4 days until grass have hardened off.	Grass have re-established	Contractor/ ESO	Prior to decommissioning	4.2, and 4.9
Fauna and Flora	Spread of invasive and alien vegetation	To prevent the spread and occurrence of alien invaders	Prior to concluding decommissioning activities the contractor should eradicate all invaders visible on the construction site.	No alien and invasive species visible	Contractor ESO and ECO	At end of construction phase	4.1, 4.2, 4.4, 4.5 and 4.9
	Incomplete rehabilitation	To protect the existing indigenous flora and fauna	Upon completion of construction and rehabilitation the ECO should assess and approve the adequacy of the rehabilitation and ensure that sufficient levels of rehabilitation have been undertaken to allow re-establishment of the necessary vegetation. Rehabilitation works should be monitored until 80% of vegetation has been established.	Site rehabilitated	Contractor ESO and ECO	Until ECO satisfied	4.2, 4.4, and 4.9
Aesthetic	Waste removal	All waste removed from construction site	All waste must be removed from site prior to contractor leaving site.	No pollution of the environment	Contractor Site supervisor ECO	At end of construction phase	4.2 and 4.12
Legal compliance	Compliance with RoD and EMP	ECO to conduct final site inspection and audit	ECO to conduct last inspection on site and sign off that the EMP has been complied with or identify breaches. Submit to LDEDET for approval.	EMP compliance	ECO	At end of construction phase	4.2
	Structural integrity	Structures comply with design	Verify structures comply with design specifications.	Structural integrity	ECO	At end of construction phase	4.1
Hydrology & morphology	Change in river morphology , scouring and siltation	Erosion, siltation, and surface water pollution. Damage to river morphology.	Rehabilitation of the watercourse, including riparian and in-stream habitat, is undertaken after any impedance or diversion of flow	Riparian and in-stream rehabilitation	Contractor/ ESO	At end of construction phase	4.1 and 4.2

Environmental Attribute	Environmental concern	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action	Applicable legislation reference
Operational Phase							
Hydrology & water quantity	Altering flow pattern or volume of water	Prevent altering the flow in the Sand River negatively	Developer to do the following during operational phase: <ul style="list-style-type: none"> • measure flow of Sand River • Measure water abstracted from the Sand River on a monthly basis on the last day of the month. 	Continuous flow within watercourse during rainy season	Developer	Daily and Monthly	4.1 and 4.2
Geohydrology	Over utilisation of aquifer	Prevent over utilization of groundwater resource	Developer to measure volumes of water abstracted from boreholes monthly on the last day of the month.	Sustainable water supply	Developer	Monthly	4.1 and 4.2
Safety	Damage to infrastructure and loss of life due to dam failure	Prevent damage to infrastructure and loss of life	The developer (water user) to: <ul style="list-style-type: none"> • conduct frequent (at least once per week) inspections of the dams and pipeline constructed to ensure that there is no visible signs of structural damage; and • To ensure legal inspections are carried out in accordance with specified frequencies. 	Structural integrity	Developer	Weekly and 5-yearly	4.1
Hydrology	Maintaining base flow in the Sand River	Only take water from river during flood conditions	Farmer to inspect control mechanism installed to ensure water is only abstracted from the Sand River during flood conditions.	Abstraction control mechanism functioning	Developer	Once per month	4.1 and 4.2

6. Procedures for Environmental Incidents

6.1 Leakages and Spills

- Identify source of problem;
- Stop leak, if safe to do so;
- Contain spilt material, using spills kit or sand;
- Notify Environmental Control Officer;
- Remove spilt material and place in sealed container for disposal (if possible);
and
- Environmental Control Officer to follow Incident Management Plan.

6.2 Failure of Erosion/Sediment Control Devices

- Prevent further escape of soil/sediment;
- Contain escaped material using silt fence, hay bales, pipes, etc.;
- Notify ECO;
- Repair or replace failed device as appropriate;
- Dig/scrape up escaped material; take care not to damage vegetation;
- Return escaped material to area where it originated from;
- ECO to follow Incident Management Plan; and
- Monitor for effectiveness until re-establishment.

6.3 Bank/Slope Failure

- Stabilize toe of slope to prevent sediment escape using aggregate bags, silt fence, logs, hay bales, pipes, etc.;
- Notify ECO;
- ECO to follow Incident Management Plan;
- Divert water upslope from failed bank/slope;
- Protect area from further collapse as appropriate;
- Restore as advised by ECO; and

- Monitor for effectiveness until stabilized.

6.4 Discovery of Rare or Endangered Species

- Cease work in the area of discovery;
- Notify ECO;
- If a plant is found, mark location of plants;
- If an animal, mark location where sighted, take picture if possible;
- ECO to identify or arrange for identification of species, and or the rescue and relocation of the species if possible;
- If confirmed significant, ECO to liaise with Endangered Wildlife Trust; and
- Recommence work when cleared by ECO.

6.5 Discovery of Archaeological or Heritage finds

- Cease work in the area of discovery;
- Do not disturb the area of the find;
- Notify ECO;
- ECO to arrange appraisal of specimen;
- If confirmed significant, ECO to liaise with National, Cultural and History Museum
P.O. Box 28088
SUNNYSIDE
0132
Contact Mr. J. van Schalkwyk or Mr. Naude; and
- Recommence work when cleared by ECO.

7. EMP Review and compliance

1. Changes will be affected to this draft EMP in accordance with LDEDET comments.
2. The Contractor's Site Supervisor is responsible for ensuring that site workers comply with procedures, and for informing the site workers of any changes that may have been implemented by LDEDET before starting any construction work.
3. If the contractor cannot comply with any of the mitigation measures as described in **Section 5.**, they should inform the ECO with reasons within 7 working days from receipt of the EMP.

ANNEXURE G:
OTHER INFORMATION –
APPLICATION FORM AND OTHER
CORRESPONDENCE WITH LDEDET



For any queries in this regards, please contact the Department at the contact details provided above taking into consideration that submissions must be made at the Central Administrative Office and not to e-mails addressed directly to officials.

Yours faithfully



MANAGER

ENVIRONMENTAL IMPACT MANAGEMENT

DATE: 25 / 03 / 2014

Re: Remotens Trust

For attention: Mr R. Schulenburg

Tel: 083 274 3232

Fax: 086 667 0576



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF ECONOMIC DEVELOPMENT, ENVIRONMENT & TOURISM

EIA APPLICATION FORM - EIA REGULATIONS, 2010

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment (EIA) Regulations, 2010

File Reference Number:

NEAS Reference Number:

Date Received:

(For official use only)

12/1/9/1-C63

LIM/EIA/0000814/2014

PROJECT TITLE

Water infrastructure development for agricultural and domestic purposes on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS

Kindly note that:

1. This application form is current as of 01 July 2012. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. In this form Regulations refer to Environmental Impact Assessment Regulations, 2010; and the Act refers to the National Environmental Management Act, 1998 (Act 107 of 1998) as amended.
3. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
4. Where applicable black out the boxes that are not applicable in the form.
5. Incomplete applications may be returned to the applicant for revision.

Cnr Suid & Dorp Streets, POLOKWANE, 0700, P O Box 55464, POLOKWANE, 0700
Tel: 015 290 7167 / 7167 Fax: 015 295 5015, website: <http://www.ladet.gov.za>

The heartland of southern Africa – development is about people!

6. The use of the phrase "not applicable" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
7. No faxed or e-mailed applications will be accepted.
8. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.
9. This application form must be handed in at the offices of the Department of Economic Development, Environment and Tourism:-

<p>Postal Address: Central Administration Office Environmental Impact Management P. O. Box 55464 POLOKWANE 0700</p>	<p>Physical Address: Central Administration Office Environmental Affairs Building Cnr Suid and Dorp Streets POLOKWANE 0699</p>
<p>Queries should be directed to the Central Administration Office: Environmental Impact Management:-</p> <p>For attention: Mr E. V. Maluleke</p> <p>Tel: (015) 290 7138 / 7167</p> <p>Fax: (015) 295 5015</p> <p>Email: malulekeev@ledet.gov.za</p>	

View the Department's website at <http://www.ledet.gov.za> for the latest version of the documents.

FEES

The Department of Economic Development, Environmental and Tourism details for the payment of application fees

<p>Banking details: FIRST NATIONAL BANK (FNB) Branch code: 260-148 Account number: 62259530600 Current holder: Department of Economic Development, Environment and Tourism Reference number:(important to quote this when making payment)</p>

Forward proof of payment to:

Fax: 015 295 5015

Email: elafees@ledet.gov.za

Application reference number to be sent with proof of payment

Payment Enquiries:

Contact person: Maluleke EV

Tel: 015 290 7138 / 7167

Email: elafees@ledet.gov.za

Tax exemption status:

Status: Tax exempted

Exclusions:

An applicant is excluded from paying fees if:

- The activity entails the rehabilitation of wetlands;
- The activity is a community based project funded by a government grant; or
- The applicant is an organ of state.

Applicants are required to tick the appropriate box below and ensure that the application form is accompanied by proof of payment OR proof and motivation if an exclusion applies:

Proof attached

Exclusion applies

Type of exclusion	Tick which exclusion is applicable. Proper motivation must be provided if any option is chosen.
The activity entails the rehabilitation of wetlands	
The activity is a community based project funded by a government grant	
The applicant is an organ of state.	

A. PROJECT DESCRIPTION

The entire project will entail the following (full detail of the project can also be appended):

The proposed project is for the construction of dams and pipelines on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS. It is furthermore also the intention of the applicant to withdraw water from boreholes for purposes of irrigation and domestic use. Water will be extracted from Maroelapan 613 LS (as indicated on the layout map) and be transported via the pipeline across the Farm Maroelapan 613 LS to be used for domestic purposes on the Farm De Put 611 LS and irrigation on the other farms. The pipeline will in total cover a length of approximately 12,9 km. A water Use License Application is also in the process of being applied for.

B. SITE IDENTIFICATION AND LINKAGE

Please indicate all the Surveyor-general 21 digit site (erf/farm/portion) reference numbers for all sites (including portions of sites) that are part of the application.

T	0	L	S	0	0	0	0	0	0	0	0	0	6	1	3	0	0	0	0	0
T	0	L	S	0	0	0	0	0	0	0	0	0	6	1	1	0	0	0	0	0
T	0	L	S	0	0	0	0	0	0	0	0	0	8	5	2	0	0	0	1	7
T	0	L	S	0	0	0	0	0	0	0	0	0	8	6	4	0	0	0	0	0

(These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site) If there are more than 6, please attach a list with the rest of the numbers.

C. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

List alternative sites, if applicable.

cc

Alternative:

Latitude (S):

Longitude (E):

Alternative S1 (preferred or only site alternative)

°	'	"	°	'	"
°	'	"	°	'	"
°	'	"	°	'	"

Alternative S2 (if any)

Alternative S3 (if any)

In the case of linear activities:

Alternative:

Latitude (S):

Longitude (E):

Alternative S1 (preferred or only route alternative)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

23°	43'	28.34"	29°	32'	46.19"
23°	40'	34.72"	29°	31'	1.07"
23°	38'	12.36"	29°	28'	34.59"

Alternative S2 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

°	'	"	°	'	"
°	'	"	°	'	"
°	'	"	°	'	"

Alternative S3 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

°	'	"	°	'	"
°	'	"	°	'	"
°	'	"	°	'	"

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

D. PROJECT VALUE

Please indicate the estimated value of your project in Rand Value. This information is only required for reporting purposes by the Department.

Project Value ('R')

This figure is not yet available.

E. JOB CREATION ESTIMATES

Total Number of Jobs		Women	Disabled
Temporary	This information is not yet available.	This information is not yet available.	This information is not yet available.
Permanent	This information is not yet available.	This information is not yet available.	This information is not yet available.

F. SECTOR

Please indicate, by marking the appropriate box below, the sector and sub-sector applicable to the main development which forms the subject of this application:

Sector 1: Energy infrastructure

Subsector 1.1: Green economy + 'green' and energy saving industries	Subsector 1.5: Nuclear
Subsector 1.2: Infrastructure – electricity (generation, transmission & distribution)	Subsector 1.6: Basic services (local government) - electricity and electrification
Subsector 1.3: Oil and gas	Subsector 1.7: Basic services (local government) - area lighting
Subsector 1.4: Biofuels	

Sector 2: Transport Infrastructure

Subsector 2.1: Infrastructure-transport (ports, rail and road)	
Subsector 2.2: Basic services (local government) access roads)	
Subsector 2.3: Basic services (local government) - public transport	

Sector 3: Bulk services infrastructure

Subsector 3.1: Infrastructure - water (bulk and reticulation)	<input checked="" type="checkbox"/>
Subsector 3.2: Basic services (local government) - sanitation	
Subsector 3.3: Basic services (local government) -waste management	
Subsector 3.4: Basic services (local government) water	

Sector 4: Water impoundments	
------------------------------	--

Subsector 4.1: Basic services (Local Government) water	
--	--

Sector 5: Agriculture and forestry (including agri-industry, etc)	
---	--

Subsector 5.1: Agricultural value chain + agro-processing (linked to food security and food pricing imperatives)	
--	--

Subsector 5.2: Forestry, paper, pulp and furniture	
--	--

Sector 6: Communication infrastructure	
--	--

Subsector 6.1: 1 Infrastructure - information and communication technology	
--	--

Sector 7: Recreation and hospitality industry related infrastructure	
--	--

Subsector 7.1: Tourism+ strengthening linkages between cultural industries & tourist	
--	--

Subsector 7.2: Basic services (local government) - public open spaces and recreational facilities	
---	--

Sector 8 Greenfield transformation to urban or industrial form(including mining)	
--	--

Sector 9: Biodiversity or sensitive area related activities	
---	--

Sector 10: Other services	
---------------------------	--

Subsector 10.1: Mining value chain	Subsector 10.8: Business process servicing	
Subsector 10.2: Potential of metal fabrication capital & transport equipment - arising from large public investments	Subsector 10.9: Advanced materials	
Subsector 10.3: Boat building	Subsector 10.10: Aerospace	
Subsector 10.4: Manufacturing - automotive products and	Subsector 10.11: Basic services(Local Government)	

components, and medium and heavy commercial vehicles	Education	
Subsector 10.5: Manufacturing-plastics, pharmaceuticals & chemicals	Subsector 10.12: Basic services(Local Government)-health	
Subsector 10.6: Manufacturing – clothing textiles, footwear & leather	Subsector 10.13: Basic services(Local Government) Housing	
Subsector 10.7: Forestry, paper , pulp & furniture	Subsector 10.14: Basic services (Local Government) security of tenure	
	Subsector 10.15: Other	

PROJECT TITLE

Water infrastructure development for agricultural and domestic purposes on the farms Maroelapan 613 LS, De Put 611 LS, Forl Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS

1. BACKGROUND INFORMATION

Project Applicant:	Ramalane Trust		
Trading Name (if any):	Ramalane Trust		
Representative:	Mr. R. Schultenburg		
Physical Address:	Loskop Farm; Dendron		
Postal Address:	P.O. Box 196 Dendron		
Postal Code:	0715	Cell:	083 274 3232
Telephone:	083 274 3232	Fax:	086 667 0576
E-mail:	ramalane@mweb.co.za		

Landowner:	See Appendix B for List of Landowners		
Contact Person:			
Postal Address:			
Postal Code:		Cell:	
Telephone:		Fax:	
E-mail:			

In instances where there is more than one landowner, please attach a list of landowners with their contact details to this application.

District Municipality in whose jurisdiction the proposed activity will fall	Molemole Local Municipality		
Local Municipality (LM) in whose jurisdiction the proposed activity will fall:	Molemole Local Municipality		
Nearest town/city:	Dendron		
LM Contact Person:	Daniel Seanege		
Postal Address:	Private Bag x 44, Mogwadi		
Postal Code:	0715	Cell:	

Telephone: 015 501 0243 Fax: 015 501 0419

E-mail:

In instances where there is more than one local municipality and city/town involved, please attach a list with their contact details to this application

Property Description/Physical Address:

The site is situated on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS
Loskop Farm
Dendron

(Farm name, Portion, Erf/stand, etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.

Current land-use zoning:

Agricultural

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.

Is a change of land-use or a consent use application required?

	NO
	NO

Must a building plan be submitted to the local municipality?

Locality map: An A3 locality map (in colour) must be attached to the back of this document, as Appendix A. The scale of the locality map must be relevant to the size of the development (at least 1:50 000). For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.)

The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow; and
- a legend;

2. TYPE OF APPLICATION

2.1 Application for Basic Assessment

Is this an application for conducting a Basic Assessment

YES	
X	

Please indicate when the basic assessment report will be submitted:

The Basic Assessment Report will be made available for review within the first six months after the application has been approved and a reference number is obtained. The department will be furnished with a copy of the Draft Report and the final report will be submitted to the Department after the issues and concerns of all the I&AP's have been incorporated and addressed in the final Report.

2.2 Application for Scoping and EIA

Is this an application for Scoping and EIA

	NO
	X

Please indicate when the Scoping Report (including the Plan of Study for EIA) will be submitted:

3. ACTIVITIES APPLIED FOR TO BE AUTHORISED

For an application for authorisation that involves more than one listed or specified activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

3.1 For Notice 1 (R.544, 18 June 2010) and Notice 2 (R.545, 18 June 2010)

Indicate the number and date of the relevant notice: Activity No (s) (In terms of the relevant notice) : Describe each listed activity as per project description¹:

Indicate the number and date of the relevant notice:	Activity No (s) (In terms of the relevant notice) :	Describe each listed activity as per the detailed project description (and not as per wording of the relevant Government Notice) ² :
R. 544, 18 June 2010 Listing Notice 1	Activity 9	<p>The construction of facilities or infrastructure exceeding 1000 meters in length for the bulk transportation of water, sewage or storm water –</p> <p>(i) With an internal diameter of 0,36 meters or more; or</p> <p>(ii) With a peak throughput of 120 liters per second or more;</p> <p>excluding where:</p> <p>a. Such facilities or infrastructure are for bulk</p>

¹ Please note that this description should not be a verbatim repetition of the listed activity as contained in the relevant Government Notice, but should be a brief description of activities to be undertaken as per the project description

		<p>transportation of water, sewage or storm water drainage inside a road reserve; or Where such construction will occur within urban areas but further than 32 meters from a watercourse, measured from the edge of the watercourse.</p>
<p>This activity is triggered as there will be transporting bulk water from the dams on the one farm via a pipeline to other farms for domestic and irrigation purposes. The internal diameter might be more than 0.36 meters. This depends on a variety of factors and therefore this activity should be included as it is possibly triggered by the proposed development.</p>		
<p>R. 544, 18 June 2010 Listing Notice 1</p>	<p>Activity 11</p>	<p>The construction of: - Canals; channels; bridges; weirs; Bulk storm water outlet structures; Marinas; Jetties exceeding 50 square metres in size; Slipways exceeding 50 square metres in size; Buildings exceeding 50 square metres in size; or Infrastructure or structures covering 50 square metres or more</p> <p>Where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</p>
<p>The dam and pipeline will originate next to a perennial stream, within 32 meters of the stream, and therefore this activity will definitely be included. A Water Use License will also be applied for as some activities according to Section 21 are triggered.</p>		
<p>R. 544, 18 June 2010 Listing Notice 1</p>	<p>Activity 12</p>	<p>The construction of facilities or infrastructure for the off-stream storage of water, including dams and reservoirs, with a combined capacity of 50 000 cubic metres or more, unless such storage falls within the ambit of activity 19 of Notice 545 of 2010.</p>
<p>Water will be stored adjacent to the perennial stream where the capacity of the dam might possibly exceed 50 000 cubic meters. This activity is included for off-stream</p>		

storage of water.

<p>R. 544, 18 June 2010 Listing Notice 1</p>	<p>Activity 18</p>	<p>The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic metres from: A watercourse; The sea; The seashore The littoral active zone, an estuary or a distance of 100 metres inland of the highwater mark of the sea or an estuary, whichever distance is the greater-</p> <p>But excluding where such infilling, depositing, dredging, excavation, removal or moving:</p> <p>Is for maintenance purposes undertaken in accordance with a management plan agreed to by the relevant environmental authority; or Occurs behind the development setback line.</p>
--	--------------------	---

The dam and pipeline will originate next to a perennial stream, within 32 meters of the stream, and it is possible that some infilling, depositing, dredging, excavation, removal or moving activities might occur within the watercourse. Therefore this activity will be included. A Water Use License will also be applied for as some activities according to Section 21 are triggered.

Please note that any authorisation that may result from this application will only cover activities specifically applied for.

3.2 For Notice 3 (R.546, 18 June 2010)

Activity No (s) (In the notice):	No. of Geographical Area and Description as per project	Describe each listed activity as per project description ³ :
<p>GNR 546, 18 June 2010 Listing Notice 3</p>	<p>Activity 2 The construction of reservoirs for bulk water supply with a capacity of more than 250 cubic metres.</p>	<p>(i) In an estuary; (ii) In a protected area identified in terms of NEMPAA, excluding conservancies; (iii) Outside urban areas, in: (aa) National Protected Area</p>

³ Please note that this description should not be a verbatim repetition of the listed activity as contained in the relevant Government Notice, but should be a brief description of activities to be undertaken as per the project description

			<p>Expansion Strategy Focus areas;</p> <p>(bb) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;</p> <p>(cc) Sites or areas identified in terms of an International Convention;</p> <p>(dd) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p> <p>(ee) Core areas in biosphere reserves;</p> <p>(ff) Areas within 10 km from national parks or world heritage sites or 5 km from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve;</p> <p>(gg) Areas seawards of the development setback line or within 1 km from the high-water mark of the sea if no such development setback line is determined.</p>
--	--	--	--

The proposed pipeline is situated perpendicular to the Sand River and some wetlands are located nearby. Therefore this activity has been included as the river or wetlands might be considered critical in terms of biodiversity and/or ecosystem services.

<p>GNR 546, 18 June 2010 Listing Notice 3</p>	<p>Activity 16</p>	<p>The construction of:</p> <p>i.;</p> <p>ii.;</p> <p>iii.; or</p> <p>iv. Infrastructure covering 10 square metres or more.</p> <p>Where such construction occurs within a watercourse, measured or within</p>	<p>i. In an estuary;</p> <p>ii. Outside urban areas, in:</p> <p>(aa) A protected area identified in terms of NEMPAA, excluding conservancies;</p> <p>(bb) National Protected Area Expansion Strategy Focus areas;</p> <p>(cc) World Heritage Sites;</p> <p>(dd) Sensitive areas as identified in an environmental management framework as contemplated in Chapter 5 of the Act and as adopted by the component authority;</p>
--	---------------------------	---	---

		32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.	(ee) Sites or areas identified in terms of an International Convention; (ff) Critical biodiversity areas or ecosystem service areas identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans; (gg) Core areas in biosphere reserves; (hh) Areas within 10 kilometres from national or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.
--	--	--	---

The proposed pipeline is situated perpendicular to the Sand River and some wetlands are located nearby. Therefore this activity has been included as the river or wetlands might be considered critical in terms of biodiversity and/or ecosystem services.

Please note that any authorisation that may result from this application will only cover activities specifically applied for.

4. OTHER AUTHORISATIONS REQUIRED

4.1 DO YOU NEED ANY AUTHORISATIONS IN TERMS OF ANY OF THE FOLLOWING LAWS?

- 4.1.1 National Environmental Management: Waste Act
- 4.1.2 National Environmental Management: Air Quality Act
- 4.1.3 National Environmental Management: Protected Areas Act
- 4.1.4 National Environmental Management: Biodiversity Act
- 4.1.5 Mineral Petroleum Development Resources Act
- 4.1.6 National Water Act
- 4.1.7 National Heritage Resources Act
- 4.1.8 Other (please specify)

	Yes or No	Submitted		Date submitted to relevant Authority
		Yes	No	
	No	Yes	No	
	No	Yes	No	
	No	Yes	No	
	No	Yes	No	
	No	Yes	No	
	Yes		No	
	No	Yes	No	
	No	Yes	No	

5. DECLARATIONS

PROJECT TITLE

Water infrastructure development for agricultural and domestic purposes on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS

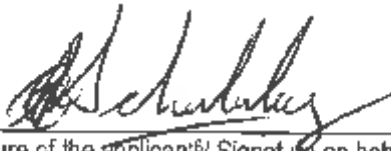
5.1 The Applicant

I, Richard Schulenburg on behalf of Ramallane Trust declare that I-

- am, or represent⁴, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner⁵;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2010, including but not limited to –
 - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
 - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
 - costs in respect of any fee prescribed by the MEC in respect of the Regulations;
 - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these Regulations and will take reasonable steps to verify whether the EAP complies with the Regulations;
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the Department and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the Department responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

⁴ If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached.

⁵ If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.



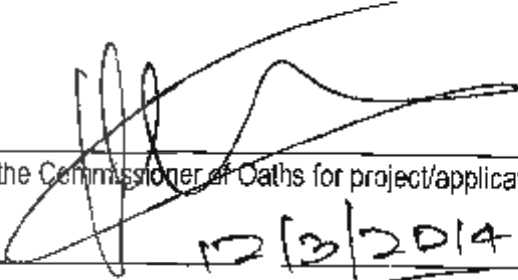
Signature of the applicant⁶/ Signature on behalf of the applicant:

Ramaliane Trust

Name of company (if applicable):

12-03-2014

Date:



Signature of the Commissioner of Oaths for project/application:

Date:

12/3/2014
CFC(SA)

Designation:

Official stamp (below)

LEONARD THEO GREGORY
COMMISSIONER OF OATHS
16 LEBOMBO ROAD
ASHLEA GARDENS
PRETORIA 0081
CHARTERED ACCOUNTANT OF SOUTH AFRICA

⁶ If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority. An EAP may not sign on behalf of an applicant.



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF ECONOMIC DEVELOPMENT, ENVIRONMENT & TOURISM

DETAILS OF EAP AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/1/9/1-C83
NEAS Reference Number:	LIM/EIA/0000814/2014
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Water infrastructure development for agricultural and domestic purposes on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS

Environmental Assessment Practitioner (EAP):¹

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Professional affiliation(s) (if any)

Bokamoso Landscape Architects & Environmental Consultants

Lizelle Gregory

P.O. Box 11375, Maroelana

0161

Cell:

083 255 8384

(012) 346 3810

Fax:

086 570 5659

lizelleg@mweb.co.za

Project Consultant:

Contact person:

Postal address:

Postal code:

Bokamoso Landscape Architects & Environmental Consultants

Lizelle Gregory

P.O. Box 11375, Maroelana

0161

Cell:

083 255 8384

Telephone:

(012) 346 3810

Fax:

086 570 5659

E-mail:

lizelleg@mweb.co.za

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010.

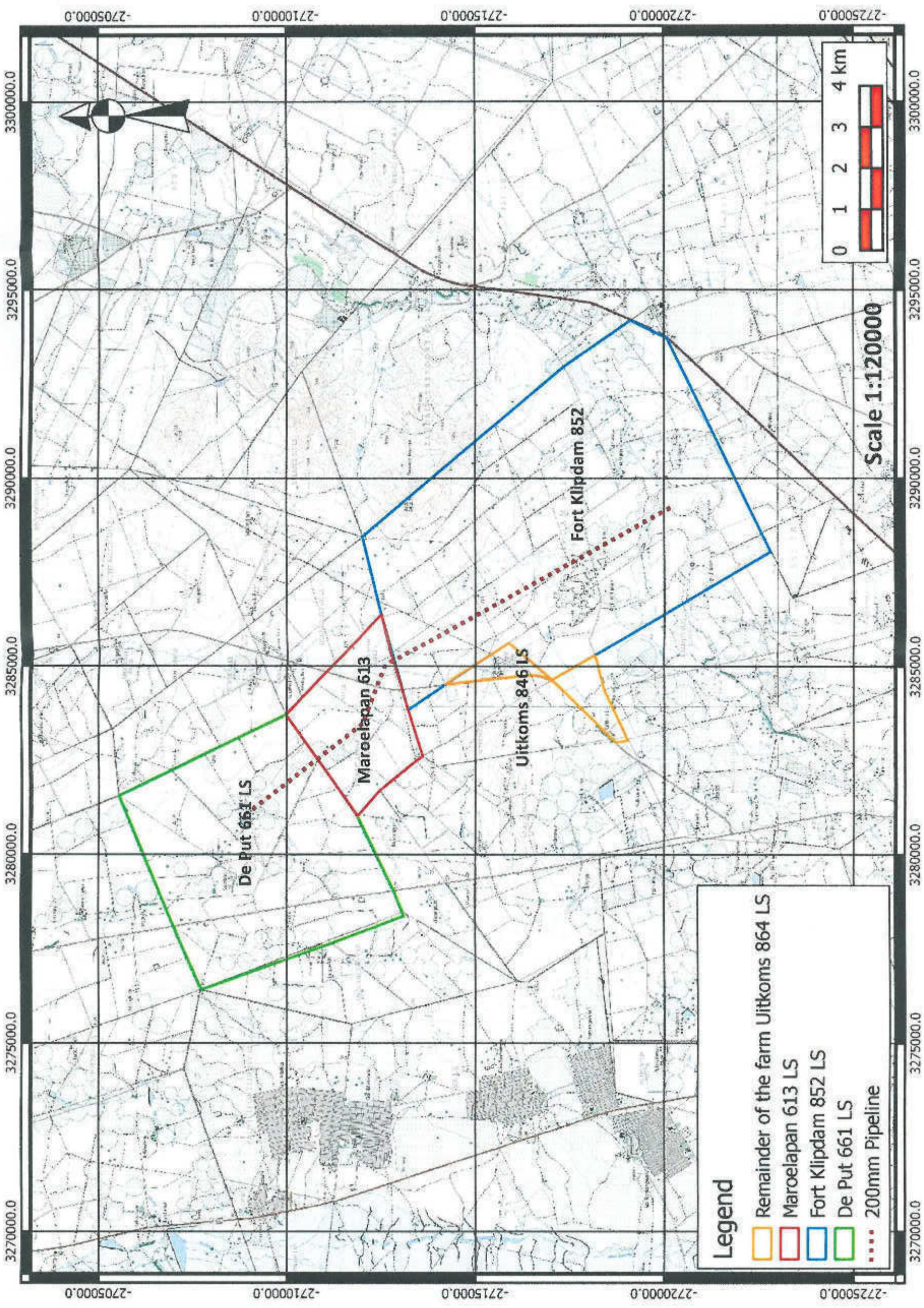

Signature of the Environmental Assessment Practitioner:

Bokamoso Landscape Architects and Environmental Consultants
Name of company: Environmental Consultants

Date:

Appendix A

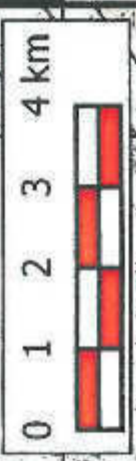
Aerial and Locality Map



Legend

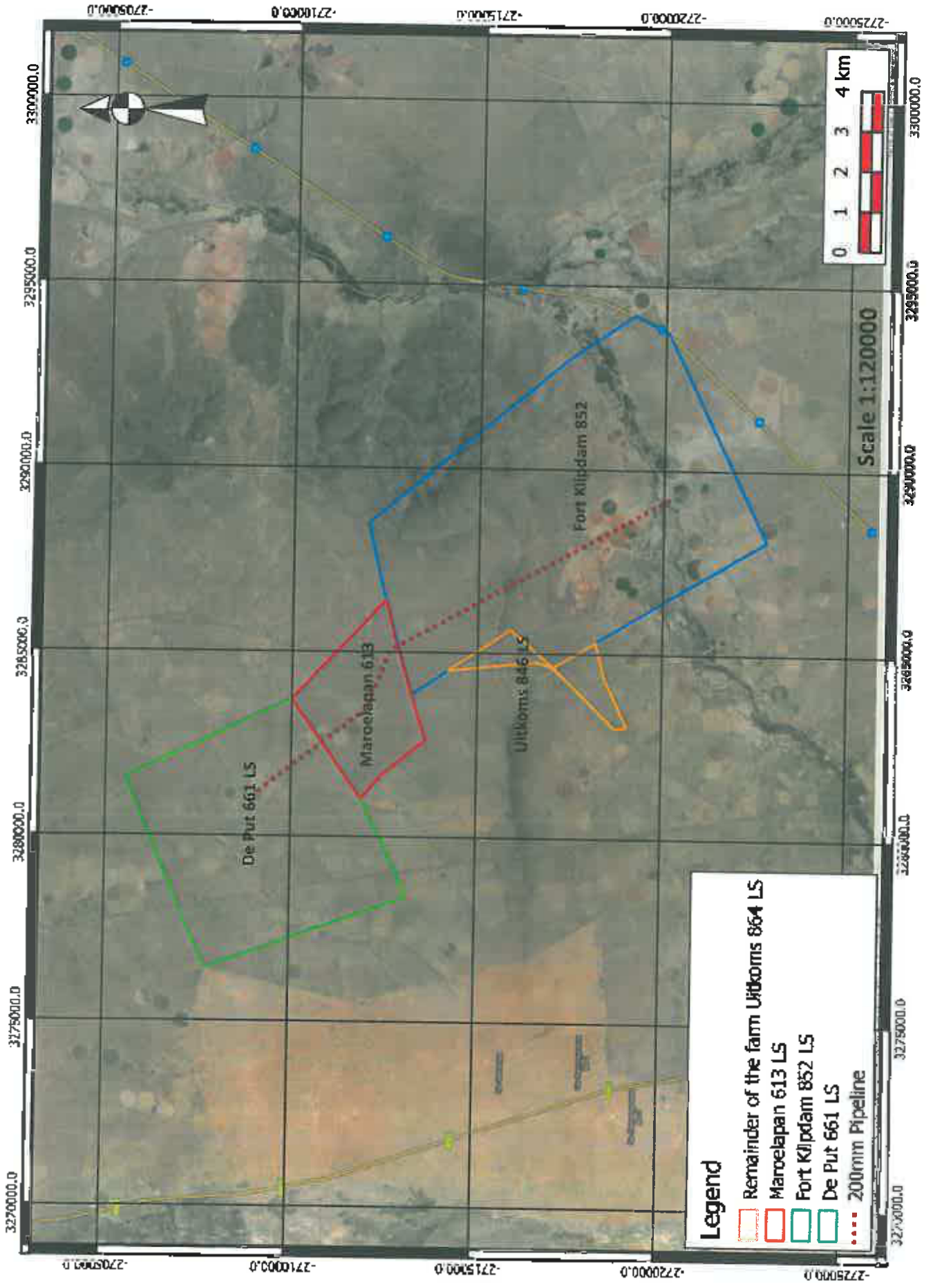
- Remainder of the farm Uitkoms 864 LS
- Maroelapan 613 LS
- Fort Klipdam 852 LS
- De Put 661 LS
- 200mm Pipeline

Scale 1:120000



3270000.0 3275000.0 3280000.0 3285000.0 3290000.0 3295000.0 3300000.0

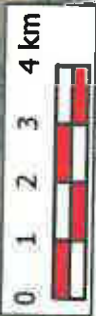
-2725000.0 -2720000.0 -2715000.0 -2710000.0 -2705000.0



Legend

- Remainder of the farm Uitkoms 864 LS
- Maroelapan 613 LS
- Fort Klipdam 852 LS
- De Put 661 LS
- 200mm Pipeline

Scale 1:120000



3300000.0
3295000.0
3290000.0
3285000.0
3280000.0
3275000.0
3270000.0

-2725000.0
-2720000.0
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-2710000.0
-2705000.0

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3275000.0
3270000.0

3300000.0
3295000.0
3290000.0
3285000.0
3280000.0
3275000.0
3270000.0

Appendix B

List of Landowners

List of Landowners

Landowner:

Contact Person:

Postal Address:

Postal Code:

Telephone:

E-mail:

Ramallane Trust		
Mr. R. Schulenburg		
P.O. Box 196, Dendron		
0715	Cell:	083 274 3232
083 274 3232	Fax:	086 667 0576
ramallane@mweb.co.za		

Landowner:

Contact Person:

Postal Address:

Postal Code:

Telephone:

E-mail:

A.G. Burger van Zyl		
Mr. Burger van Zyl		
PO Box 528, Ladanna		
0704	Cell:	082 530 2248
-	Fax:	-
helenevzyl@yahoo.com		

Appendix C

Landowners Notification

LEBOMBO GARDEN BUILDING
38 LEBOMBO ROAD
ASHUEA GARDENS
0081

P.O. BOX 11375
MAROELANA
0161

Tel: (012) 346 3810
Fax: 086 570 5659
E-mail: lizelleg@rmweb.co.za
Website: www.bokamoso.biz



Dear Landowner

10 March 2014

Basic Assessment Process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010 for the Water infrastructure development for agricultural and domestic purposes on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS

Water infrastructure development for agricultural and domestic purposes on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS It is furthermore also the intention of the applicant to withdraw water from boreholes for purposes of irrigation for domestic use.

We hereby confirm that Ramaliane Trust, appointed Bokamoso Landscape Architects and Environmental Consultants cc, to undertake a Basic Assessment Process in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment (EIA) Regulations, 2010 for the construction of dams and pipelines on the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS as listed above.

In terms of the 2010 amended NEMA EIA Regulations, the applicant, if not the land-owner, must notify the land-owner and tenants of a proposed development planned on a property occupied by the land-owner/tenant. In the case of this application the property occupied by you (as the land-owner/ tenant) forms part of the land-parcel earmarked for the above-mentioned project.

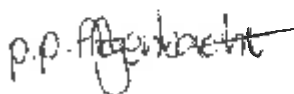
This notification therefore represents the formal notification of land-owners and/or tenants of the proposed construction of dams and pipelines in and around the farms Maroelapan 613 LS, De Put 611 LS, Fort Klipdam 852 LS and the Remainder of Portion 1 of the farm Uitkoms 864 LS. This notification letter will be submitted as part of the formal application to be submitted to the Limpopo Department of Economic Development, Environment & Tourism (LEDET).

This notification also affords you the opportunity to register (at an early stage) as an Interested and Affected Party (I&AP) in the Basic Assessment Process. In order to register you are requested to fill in your full details on the form supplied below and to fax or e-mail your details to Juanita de Beer (public participation co-ordinator of Bokamoso) for the inclusion of your details onto our public participation database.

Once you are registered as an interested and affected party, we will keep you informed of the progress with the application and we will make all correspondence, documents and other information regarding the application available to you throughout the application process.

Registration as Interested and Affected Party	
Farm Name:	
Erf /Portion Number:	
Street Address:	
Landowner:	Name & Surname: Email address: Telephone: Cell phone: Fax Number: Postal Address:
Tenant Details: (if applicable)	Name & Surname: Email address: Telephone: Cell phone: Fax Number: Postal Address:

Sincerely,



Lizelle Gregory

Bokamoso Landscape Architects and Environmental Consultants cc

List of REGISTERED LETTERS
Lys van GEREGISTREERDE BRIEWE
(With an insurance option/met 'n versekeringsopsie)



Full tracking and tracing/Volledige volg en spoor

Name and address of sender
 Naam en adres van afstender: Bokamoso P.O. Box 11375,
Marcelona 0161,
Fort Klipdam

Insurance/Versekeringsopsie
 Toll free number
 Tolery nommer
0800 111 502

No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekeringsbedrag	Insurance fee Versekeringsgeld	Postage Postgeld	Service fee Diensgeld	ABix Track and Trace customer copy Plak Volg-en-Spoor-klentekopie
1	Richard Schultenburg P.O. Box 196, Dendron, 0715					<small>ABIX TRACK AND TRACE CUSTOMER COPY Plak 'n plaksel op die brieftaske en bring dit na die poskantoor. Die nommer 885 058 972 Z.A. is op die brieftaske gedruk. Die nommer 885 058 972 Z.A. is op die brieftaske gedruk.</small> RD 885 058 972 Z.A. CUSTOMER COPY 301026R
2						
3						
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Total Totaal		R	R	R	R	

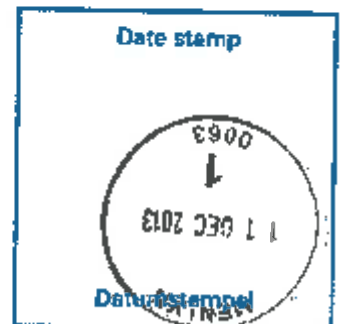
Number of letters posted
 Getal briewe gepos: 1

Signature of client
 Handtekening van klient: [Signature]

Signature of accepting officer
 Handtekening van aanneembearppte: [Signature]

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.



Mary-Lee

From: Juanita [user3@bokamoso.net]
Sent: 11 March 2014 02:08 PM
To: 'helenevzyl@yahoo.com'
Subject: Fortklip Dam - Publieke Deelname
Attachments: Landowners letter.pdf

Geagte Burger van Zyl,

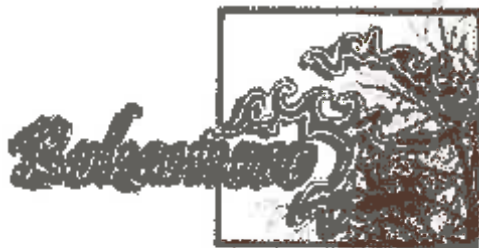
Vind asseblief die aangehegde Grond Eienaar brief in verband met die voorgestelde Fortklip Dam Projek.

Baie dankie.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants cc.**

T: (+27)12 348 3810 | F: (+27) 86 570 5659 | E: lizellcg@mweb.co.za | www.bokamoso.biz
36 Lobombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
ECONOMIC DEVELOPMENT, ENVIRONMENT & TOURISM

Enq: Ms M. Q. Mzinyane Tel: 015 260 7000 Fax: 015 266 6016 E-mail: FeedbackMC@ledet.gov.za Ref: 12/18/1-C83
News Ref: LIM/EA/000/014/2014

Bokamoso Environmental
P. O. Box 11375
MAROELANA
0181

Attention: Ms Lizelle Gregory

Tel: 012 346 2010 Fax: 086 570 6659

RE: APPLICATION FOR ENVIRONMENTAL AUTHORISATION FOR WATER INFRASTRUCTURE DEVELOPMENT FOR AGRICULTURAL AND DOMESTIC PURPOSES ON THE FARMS MAROELAPAN 813 LS, DE PUT 811 LS, FORT KLIPDAM 852 LS AND THE REMAINDER OF PORTION 1 OF THE FARM UITKOMS 884 LS WITHIN THE MOLEMOLE LOCAL MUNICIPALITY OF THE CAPRICORN DISTRICT, LIMPOPO PROVINCE

1. The request for extension to submit the draft Basal Assessment Report (BAR) in terms of the Environmental Impact Assessment (EIA) Regulations of 2010 promulgated in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended, received at the Department of Economic Development, Environment and Tourism (the Department) on 18 August 2014 has reference
2. As motivation for the extension it is mentioned that an extension of six months is requested in order to have specialist vegetation studies done during the flowering season.
3. The Department hereby grants extension until end of February 2016 to submit the draft BAR.

For any queries in this regards, please contact the Department at the contact details provided.

Yours faithfully,

**MANAGER
ENVIRONMENTAL IMPACT MANAGEMENT**

DATE: 22/8/14

Cc: Ramahane Trust For attention: Mr R. Schulenburg Tel: 083 274 3232 Fax: 086 687 0676

HEAD OFFICE

20 Hans Van Rensburg Street / 18 Balfour Street, Polokwane, 0701, Helvetia Bay X 3484, Polokwane, 0700
(Swakoboard) Tel: +2715 203 8100 Website: www.ledet.gov.za

The heartbeat of Southern Africa - development for every people

**ANNEXURE H:
COMPANY PROFILE AND CV OF
LIZELLE GREGORY**





Bokamoso

**Landscape Architects &
Environmental consultants**

**P.O.BOX 11375
Maroelana
0161**

**Tel: (012) 346 3810
Fax: (086) 570 5559**

**E-mail: lizelle@mweb.co.za
Website: www.bokamoso.net**

- 01** Executive Summary
- 02** Vision, Mission & Values
- 03** Human Resources
- 04** Services
- 05** Landscape Projects
- 06** Corporate Highlights
- 07** Environmental Projects
- 08** Indicative Clients
- 09** Tools

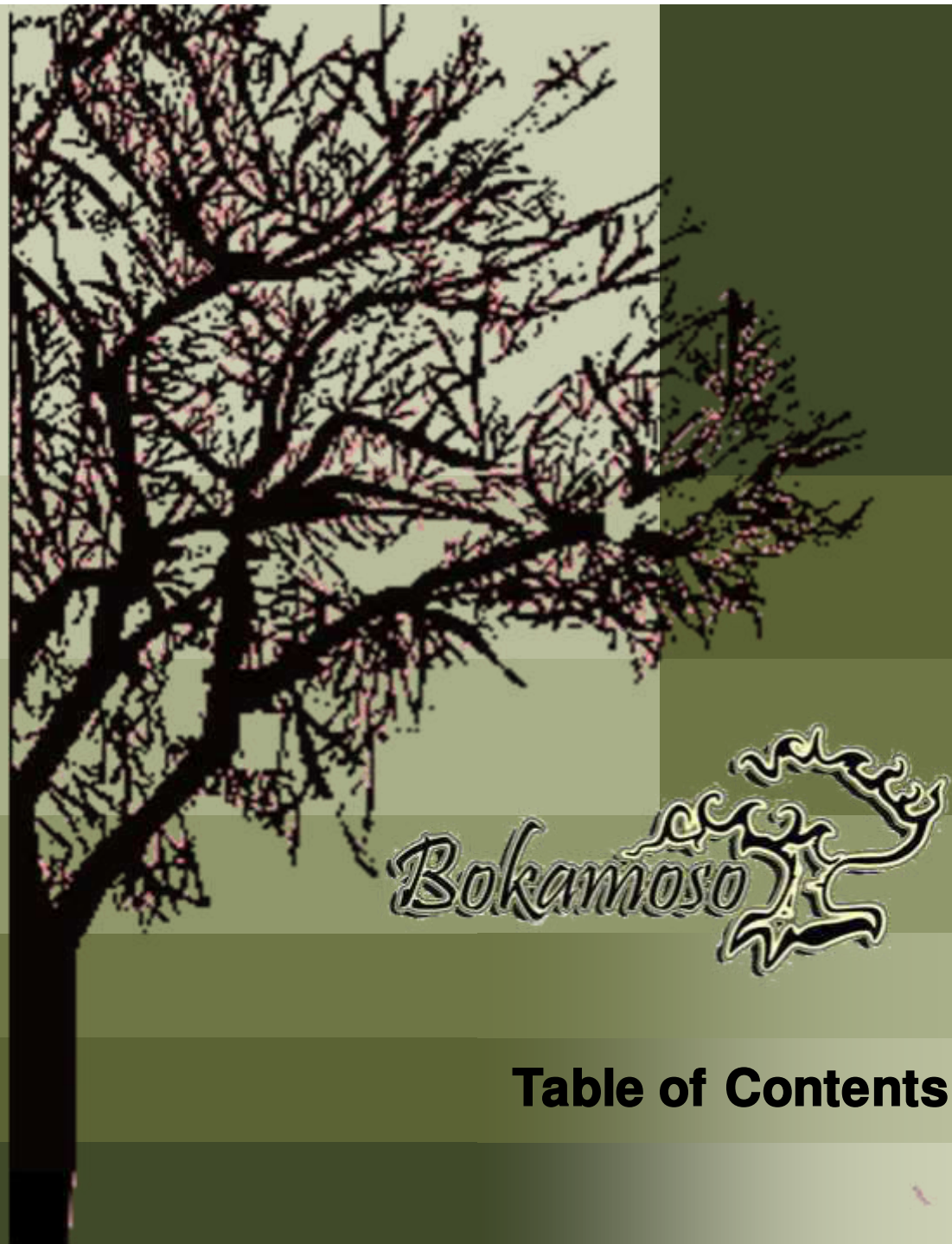


Table of Contents

Bokamoso specialises in the fields of Landscape Architecture and all aspects of Environmental Management and Planning. Bokamoso was founded in 1992 and has shown growth by continually meeting the needs of our clients. Our area of expertise stretches throughout the whole of South Africa. Our projects reflect the competence of our well compiled team. The diversity of our members enables us to tend to a variety of needs. Our integrated approach establishes a basis for outstanding quality. We are well known to clients in the private, commercial as well as governmental sector.

At Bokamoso we stand on a firm basis of environmental investigation in order to find unique solutions to the requirements of our clients and add value to their operations.



01 Executive Summary

011 Company Overview



Vision:

At Bokamoso we strive to find the best planning solutions by taking into account the functions of a healthy ecosystem. Man and nature should be in balance with each other.

Mission:

We design according to our ethical responsibility, take responsibility for successful completion of projects and constitute a landscape that contributes to a sustainable environment. We add value to the operations of our clients and build long term relationships that are mutually beneficial.

Values:

Integrity

Respect



Bokamoso stands on the basis of fairness. This include respect within our multicultural team and equal opportunities in terms of gender, nationality and race.

We have a wide variety of projects to tend to, from complicated reports to landscape installation. This wide range of projects enables us to combine a variety of professionals and skilled employees in our team.

Bokamoso further aids in the development of proficiency within the working environment. Each project, whether in need of skilled or unskilled tasks has its own variety of facets to bring to the table.

We are currently in the process of receiving our BEE scorecard. We support transformation in all areas of our company dynamics.



03 Human Resources

031 Employment Equity

Lizelle Gregory (100% interest)

Lizelle Gregory obtained a degree in Landscape Architecture from the University of Pretoria in 1992 and passed her board exam in 1995.

Her professional practice number is PrLArch 97078.

Ms. Gregory has been a member of both the Institute for Landscape Architecture in South Africa (ILASA) and South African Council for the Landscape Architecture Profession (SACLAP), since 1995.

Although the existing Environmental Legislation doesn't yet stipulate the academic requirements of an Environmental Assessment Practitioner (EAP), it is recommended that the Environmental Consultant be registered at the International Association of Impact Assessments (IAIA). Ms. Gregory has been registered as a member of IAIA in 2007.

Ms. Gregory attended and passed an International Environmental Auditing course in 2008. She is a registered member of the International Environmental Management and Assessment Council (IEMA).

She has lectured at the Tshwane University of Technology (TUT) and the University of Pretoria (UP). The lecturing included fields of Landscape Architecture and Environmental Management.

Ms. Gregory has more than 20 years experience in the compilation of Environmental Evaluation Reports:

Environmental Management Plans (EMP);

Strategic Environmental Assessments;

All stages of Environmental input ;

EIA under ECA and the new and amended NEMA regulations and various other Environmental reports and documents.

Ms. Gregory has compiled and submitted more than 600 Impact Assessments within the last 5-6 years. Furthermore, Ms. L. Gregory is also familiar with all the GDARD/Provincial Environmental policies and guidelines. She assisted and supplied GAUTRANS/former PWV Consortium with Environmental input and reports regarding road network plans, road determinations, preliminary and detailed designs for the past 12 years.



03 Human Resources

032 Members

Consulting

Anè Agenbacht

Introduction to Sustainable Environmental Management—An overview of Principles, Tools, & Issues (Potch 2006)
Leadership Training School (Lewende Woord 2010)
BA Environmental Management (UNISA 2011)
PGCE Education (Unisa 2013) - CUM LAUDE
Project Manager
More than 10 years experience in the compilation of various environmental reports

Mary-Lee Van Zyl

Msc. Plant Science (UP)
BSc (Hons) Plant Science (UP)
BSc Ecology (UP)
2years 7months working experience in the Environmental field
Specialises in ECO works, Basic Assessments, EIA's, and Flora Reports
Compilation of various Environmental Reports

Dashentha Naidoo

BA Honours Degree in Environmental Management (UNISA) - CUM LAUDE
Bachelor Social Science in Geography & Environmental Management (UKZN)
More than 4 years experience in WUL Application & Integrated Environmental Management within water resource management.
Senior Environmental Practitioner & Water Use Licences Consultant
Specialises in Water Use License & Compilation of various Env. Reports

Ben Bhukwana

BSc Landscape Architecture (UP)
More than 5 years experience in the field of Landscape Architecture (Design, Construction, and Implementation).
Specialises in Landscape Design, ECO, Rehabilitation Plans and Compilation Basic Assessment Reports
Compilation of Tender documents



03 Human Resources

033 Personnel

Anton Nel

B-Tech Landscape Technology (TUT)
N Dip Landscape Technology (TUT)
Hazardous Waste Management Short Course
2 years experience in ECO.
Specialises in Basic Assessment Reports.

Juanita de Beer

Diploma Events Management and Marketing (Damelin)
Specializes in Public relations and Public Participation Processes (3 years experience)

Alfred Thomas

CIW Foundation& Internet Marketing (IT Academy)
12 years experience in GIS and IT in general.
GIS Operator and Multimedia Specialist.

Bianca Reyneke

Applying SHE Principles and Procedures (NOSA)
Intro to SAMTRAC Course (NOSA)
SHEQ Coordinator and compilation of environmental reports
Specialises in compiling various environmental reports



03 Human Resources

034 Personnel

Elsa Viviers

Interior Decorating (Centurion College)
(Accounting/ Receptionist) and Secretary to Lizelle Gregory

Loura du Toit

N. Dip. Professional Teacher (Heidelberg Teachers Training College)
Librarian and PA to Project Manager

Merriam Mogalaki

Administration Assistant with in-house training in bookkeeping

Landscape Contracting

Elias Maloka

Site manager overseeing landscape installations.
Irrigation design and implementation.
Landscape maintenance
18 years experience in landscape contracting works.

The contracting section comprises of six permanently employed black male workers. In many cases the team consists of up to 12 workers, depending on the quantity of work.



03 Human Resources

035 Personnel



01 Environmental Management Services

- Basic Assessment Reports
- EIA & Scoping Reports
- Environmental Management Plans
- Environmental Scans
- Strategic Environmental Assessments
- EMP for Mines
- Environmental Input and Evaluation of Spatial Development Frameworks
- State of Environmental Reports
- Compilation of Environmental Legislation and Policy Documents
- Environmental Auditing and Monitoring
- Environmental Control Officer (ECO)
- Visual Impact assessments
- Specialist Assistance with Environmental Legislation Issues and Appeals
- Development Process Management
- Water Use License applications to DWA
- Waste License Application



04 Services

041 Consulting Services

02 Landscape Architecture

- Master Planning
- Sketch Plans
- Planting Plans
- Working Drawings
- Furniture Design
- Detail Design
- Landscape Development Frameworks
- Landscape Development Plans (LDP)
- Contract and Tender Documentation
- Landscape Rehabilitation Works

03 Landscape Contracting

Implementation of Plans for:

- Office Parks
- Commercial/ Retail / Recreational Development
- Residential Complexes
- Private Residential Gardens
- Implementation of irrigation systems



Bokamoso

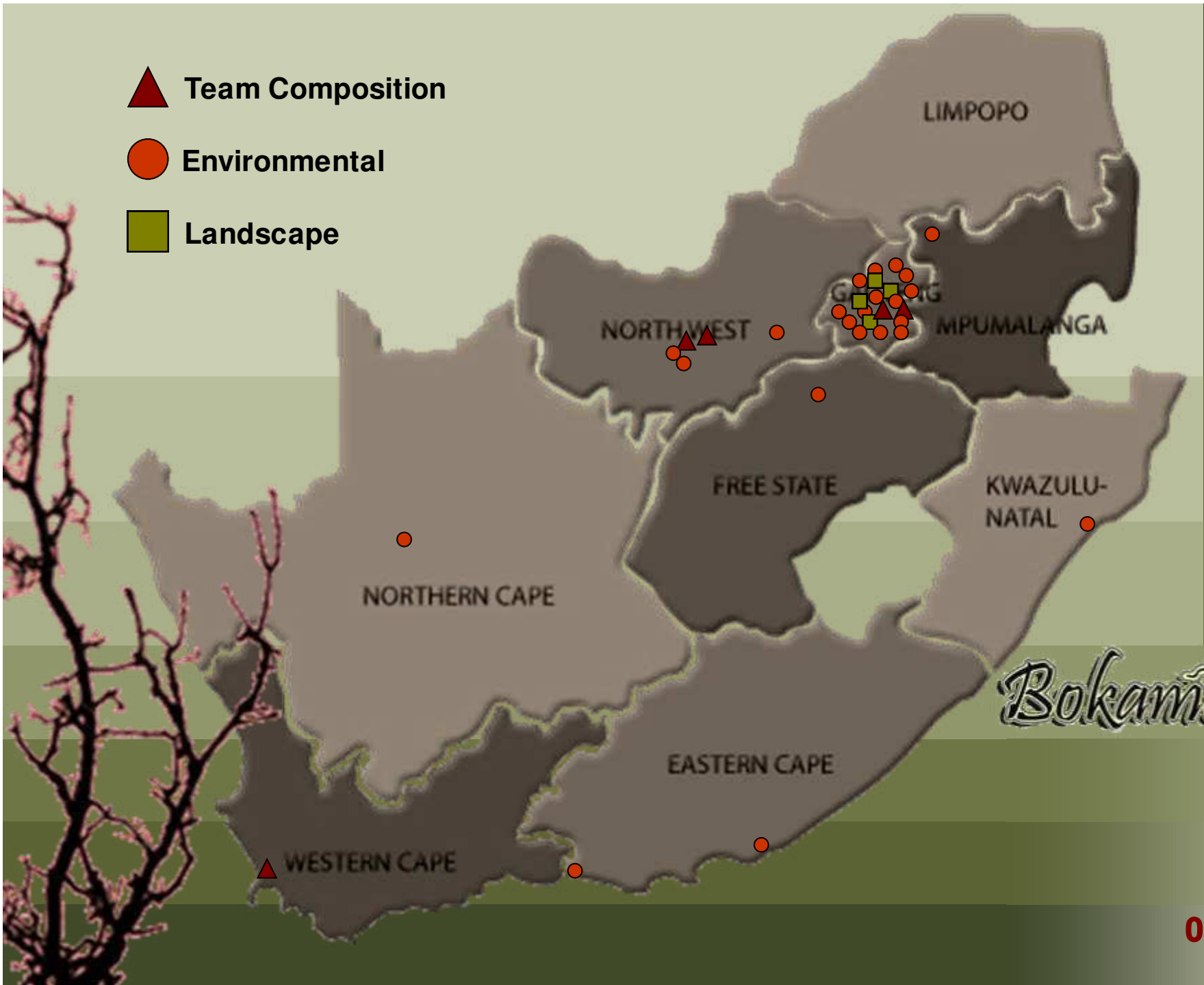
04 Services

042 Contracting Services

▲ Team Composition

● Environmental

■ Landscape



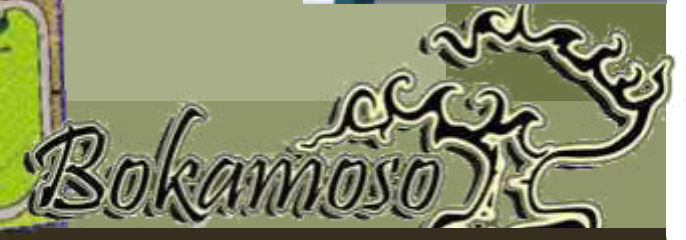
04 Services

043 Orientation

01 Valpre Bottling Plant, Heidelberg



project
shelter- site plan

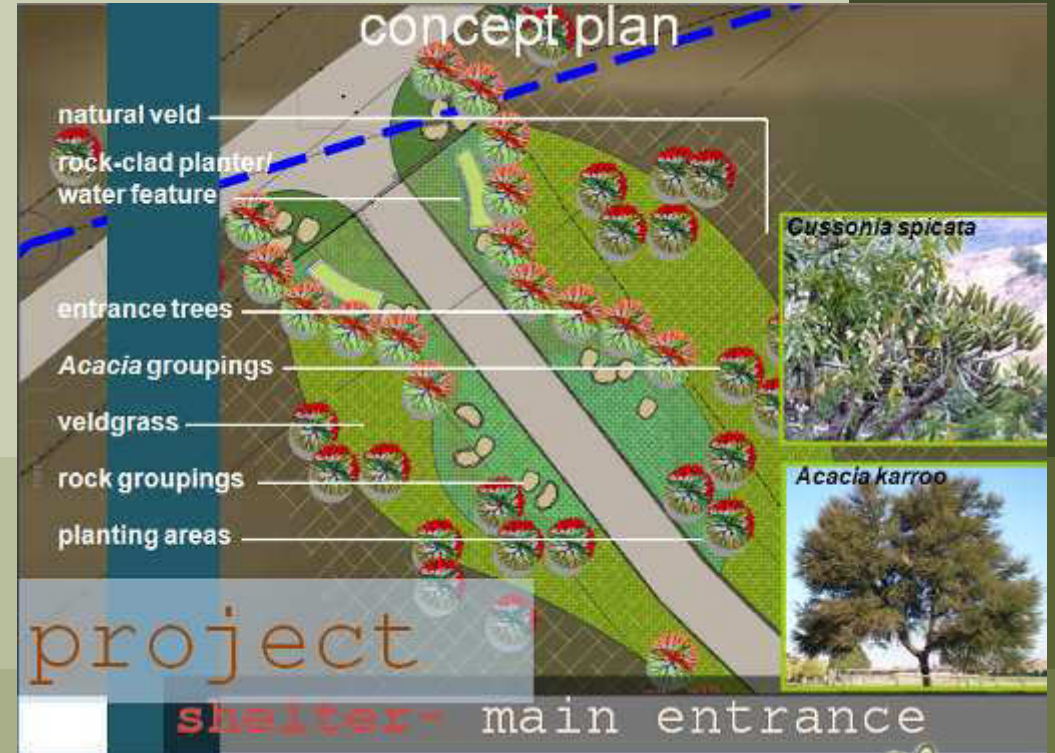
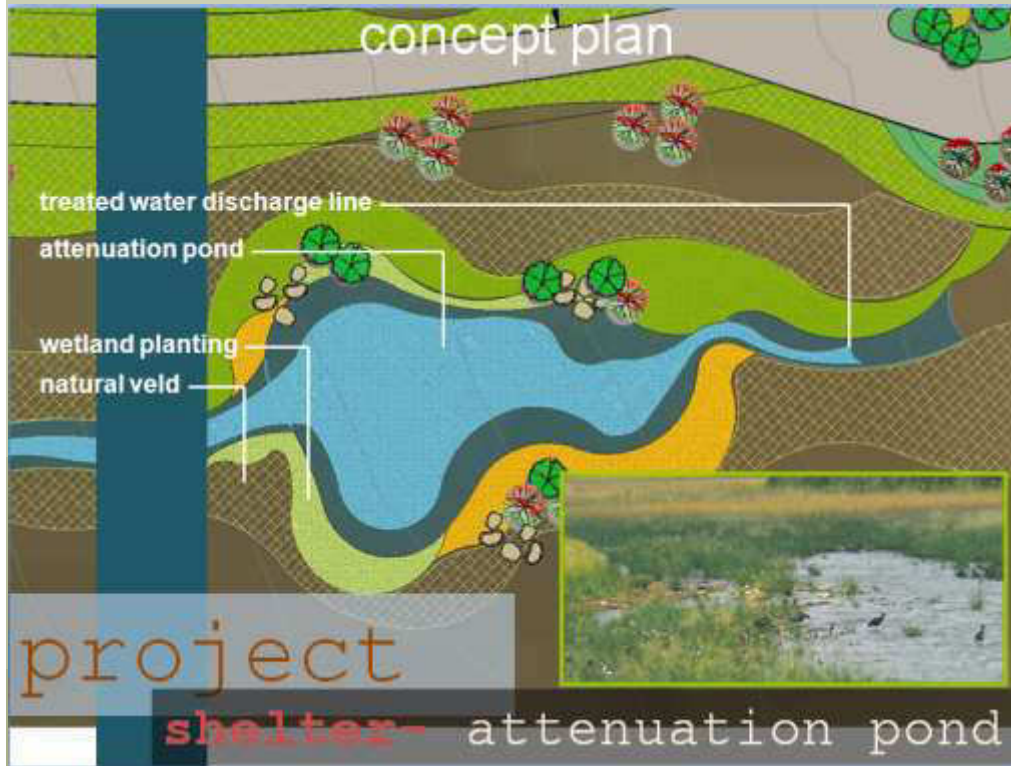


05 Landscape Projects- Current

051 Commercial



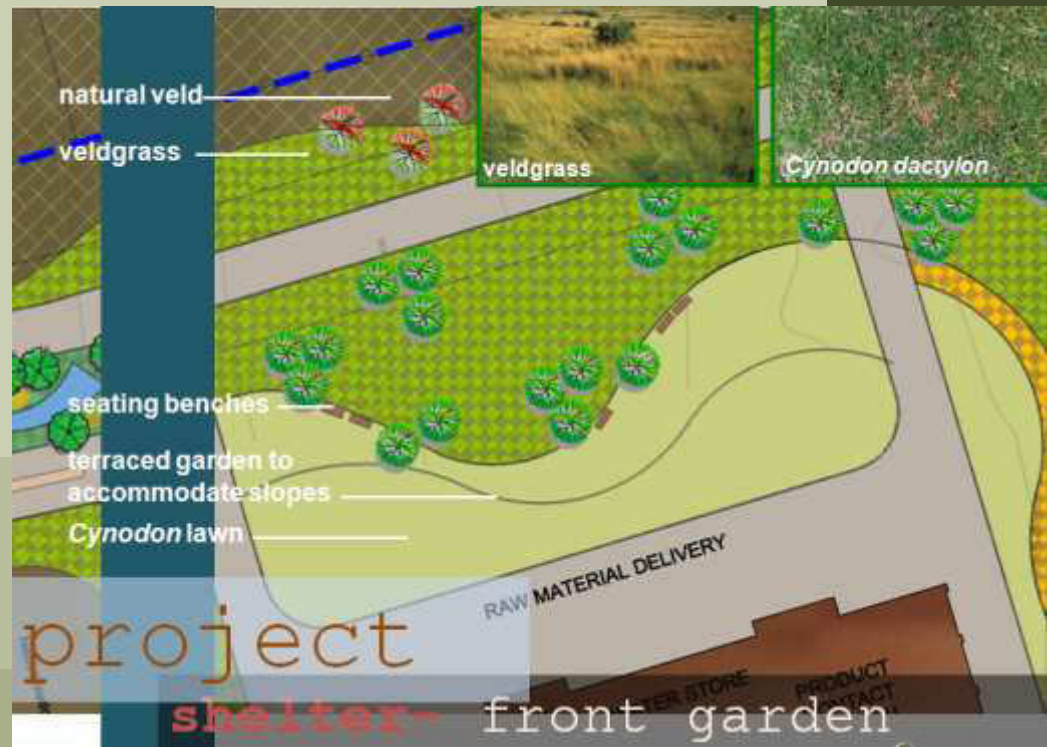
01 Valpre Bottling Plant, Heidelberg



05 Landscape Projects- Current

051 Commercial

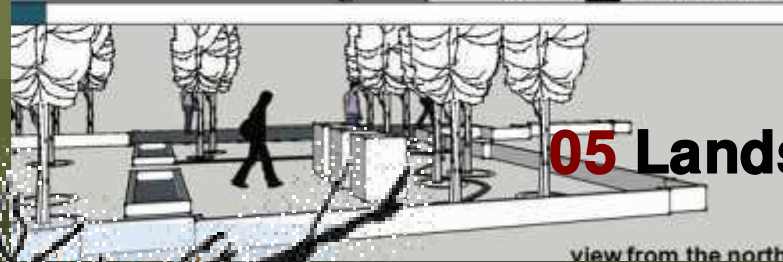
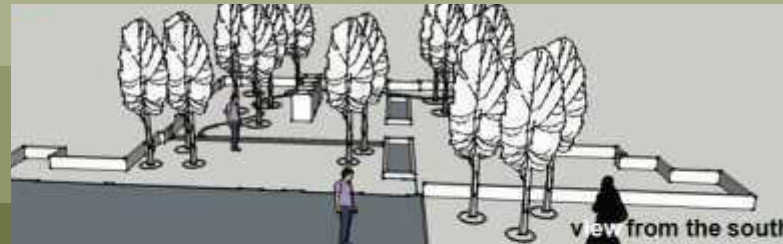
01 Valpre Bottling Plant, Heidelberg



05 Landscape Projects– Current

051 Commercial

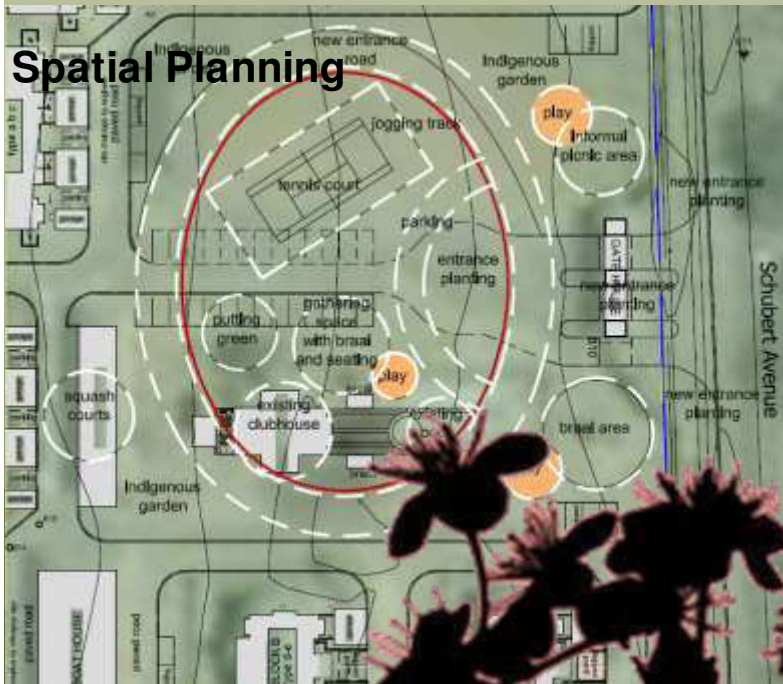
01 Valpre Bottling Plant, Heidelberg



05 Landscape Projects– Current

051 Commercial

02 Melodie Waters, Hartebeespoortedam



Streetscape

Indigenous Planting



05 Landscape Projects – Current

052 Commercial/Recreational



02 Melodie waters, Hartebeestpoortdam



Rehabilitation



Area Layout

Development Framework



05 Landscape Projects– Current

052 Commercial/Recreational

03 Grain Building, Pretoria



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05 Landscape Projects– Completed

053 Offices

04 Ismail Dawson offices, Pretoria



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05 Landscape Projects – Conceptual

053 Offices

05 Celtic Manor, Pretoria



Bokamoso

05 Landscape Projects - Completed

054 Complex Development

06 The Wilds, Pretoria



05 Landscape Projects – Completed

054 Complex Development

07 The Wilds, Pretoria

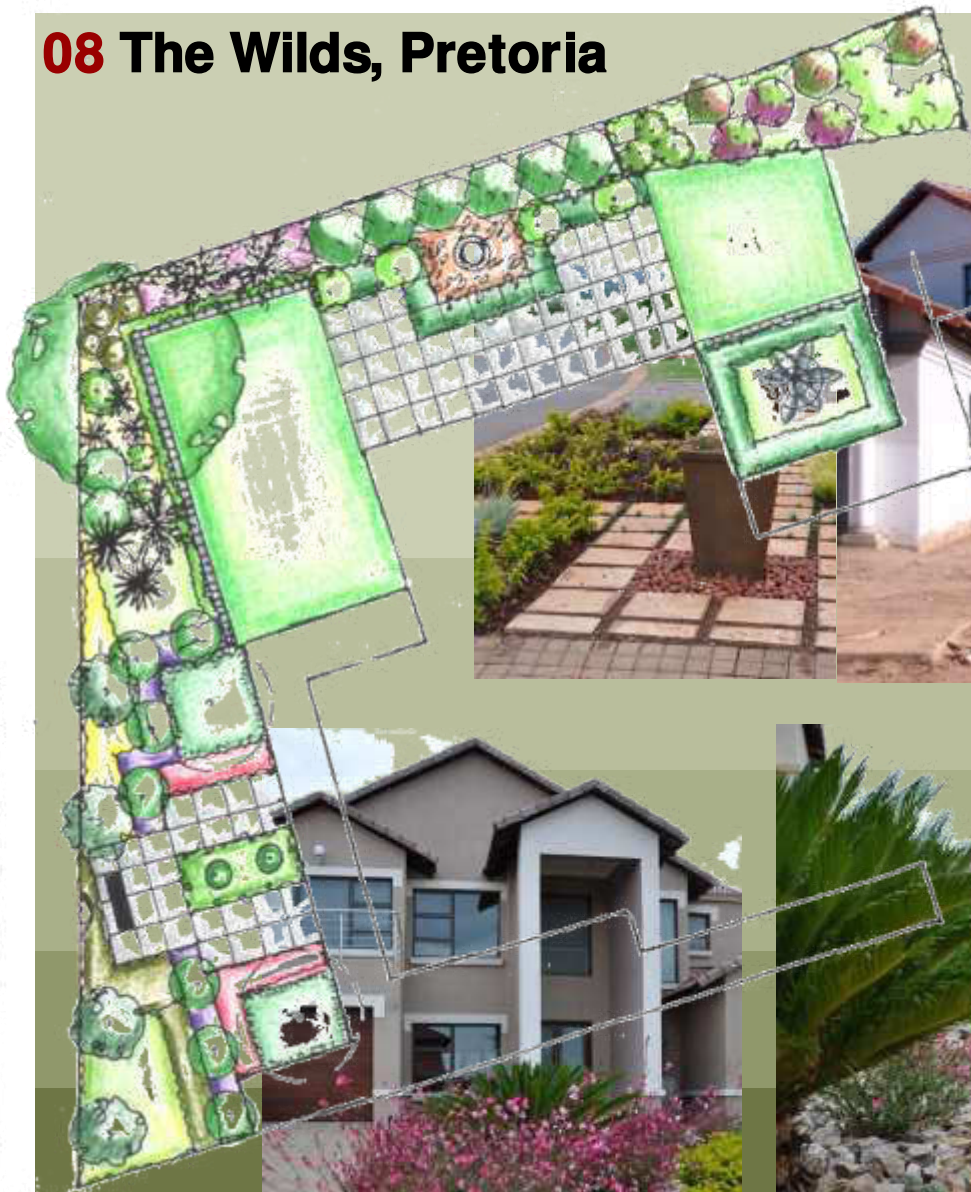


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05 Landscape Projects – Completed

055 Residential

08 The Wilds, Pretoria



Bokamoso

05 Landscape Projects – Completed

055 Residential

09 The Wilds, Pretoria



Bokamoso

05 Landscape Projects – Completed

055 Residential

010 The Wilds, Pretoria



Bokamoso

05 Landscape Projects – Completed

055 Residential



011 Governor of Reserve Bank's Residence, Pretoria



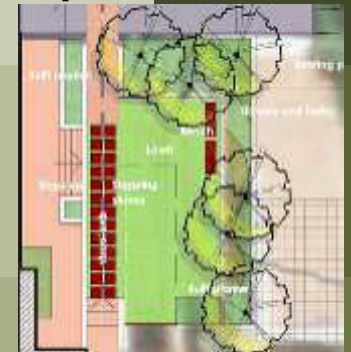
Plant Palette



Option 1



Option 2



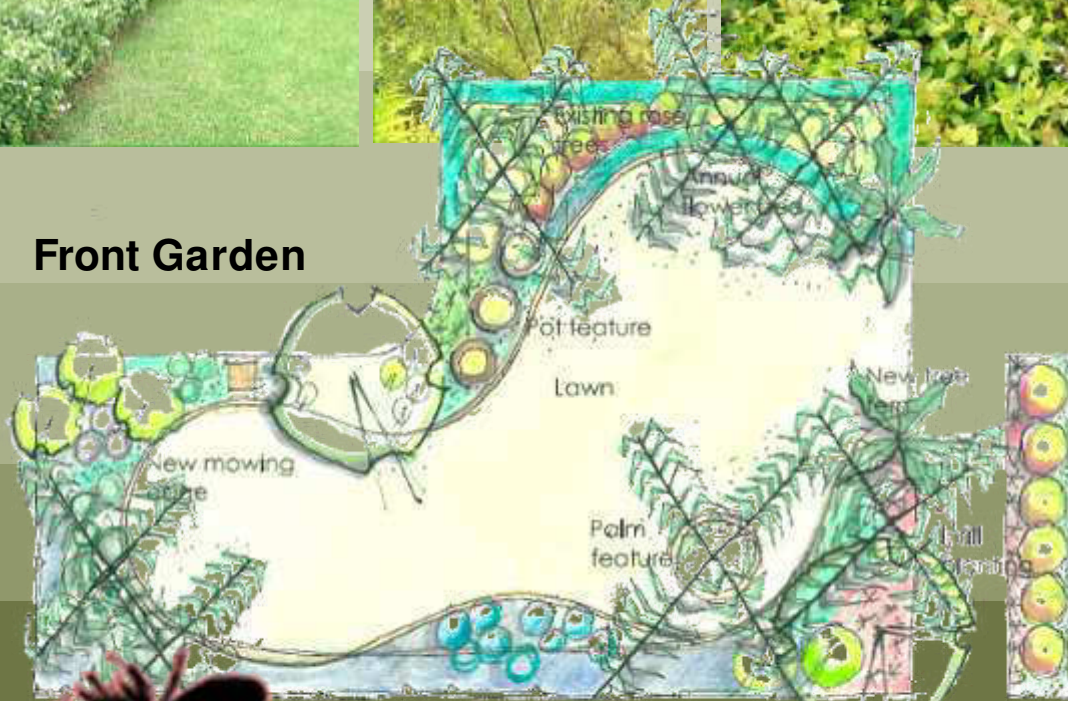
05 Landscape Projects – Conceptual

055 Residential

012 House Ismail, Pretoria



Front Garden

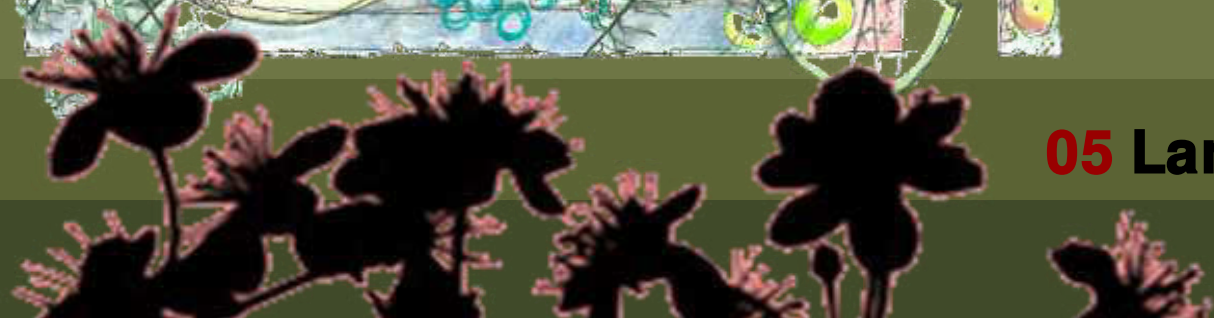


Back Garden



05 Landscape Projects - Conceptual

055 Residential



013 Forest Garden, Pretoria

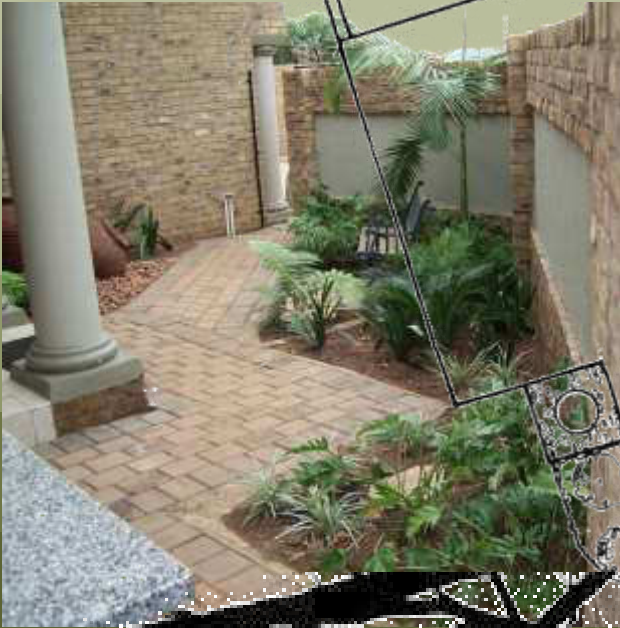


Bokamoso

05 Landscape Projects – Completed

055 Residential

015 Forest Garden, Pretoria



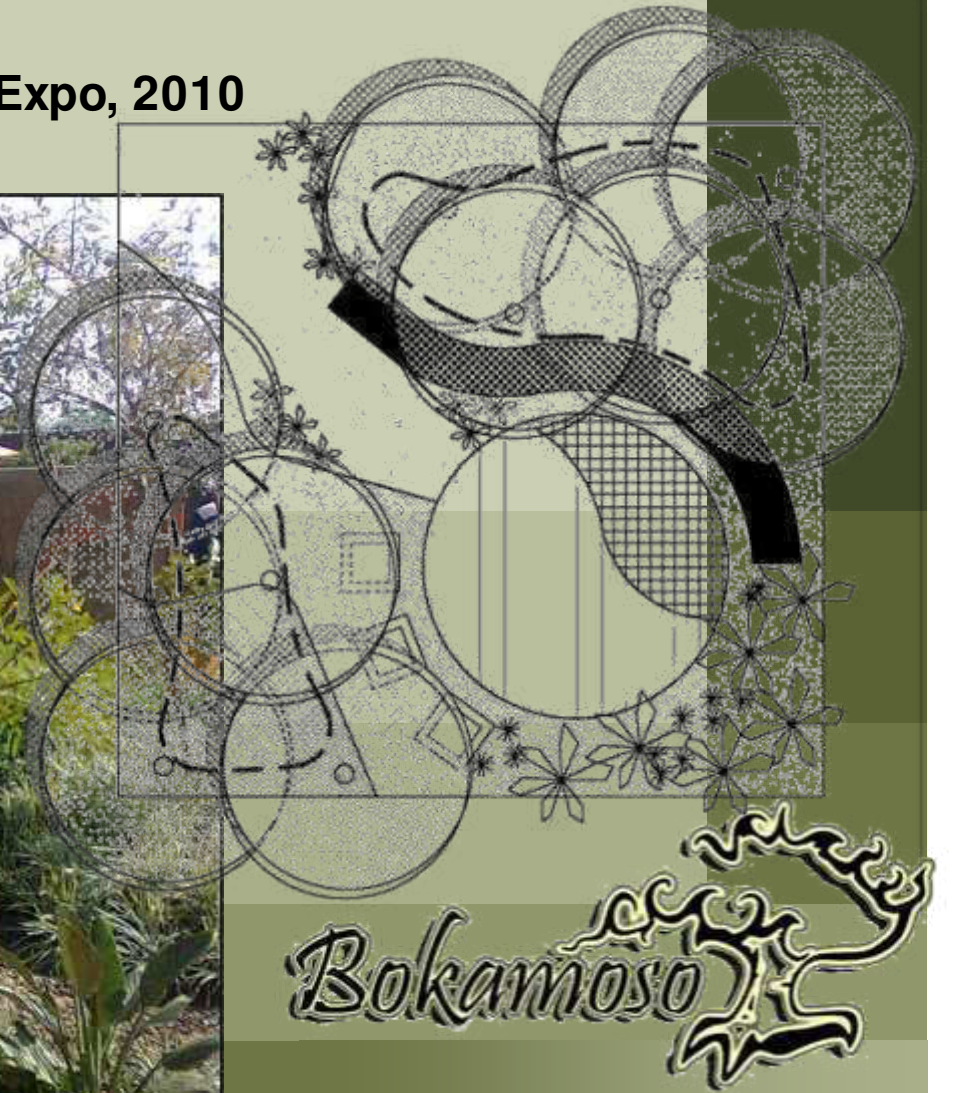
Bokamoso 

05 Landscape Projects - Completed

055 Residential

01 Safari Garden Expo

Received a Silver Certificate at the Safari Garden Expo, 2010



Bokamoso 

06 Corporate Highlights

061 Awards

02 UNISA Sunnyside Campus, Pretoria

Best Commercial Paving Plan in Gauteng, 1997



06 Corporate Highlights

061 Awards

Project Name	Status	Project
Environmental Impact Assessment(EIA) and Scoping Report		
Junction 21	ROD	EIA
5 O'clock site access	In Progress	EIA
Bokamoso X 1	In Progress	Scoping & EIA
Doornvallei Phase 6 & 7	In Progress	EIA
Engen Interchange	In Progress	Scoping & EIA
Erasmia X15	In Progress	EIA
Franschkloof	In Progress	EIA
K113	Amendment of ROD	EIA
K220 East	ROD	EIA
K220 West	ROD	EIA
K54 ROD conditions	In Progress	EIA
Knopjeslaagte 95/Peachtree	ROD	EIA
Knopjeslaagte portion 20 & 21	ROD	EIA
Lillieslief/Nooitgedacht	In Progress	EIA
Mooiplaats 70 (Sutherland)	In Progress	EIA
Naauwpoort 1 - 12/Valley View	In Progress	EIA
PeachTree X5	In Progress	EIA
Strydfontein 60	In Progress	EIA
Thabe Motswere	In Progress	Scoping & EIA
Vlakplaats	In Progress	EIA
Waterval Valley	In Progress	EIA
Environmental Opinion		
Doornkloof 68 (Ross)	In Progress	Opinion
Monavoni X 53	In Progress	BA & Opinion
Mooikloof (USN)	In Progress	Opinion
Norwood Mall/Sandspruit	In Progress	Opinion
Riversong X 9	In Progress	Opinion
Sud Chemie	In Progress	Opinion
USN Benjoh Fishing Resort	In Progress	Opinion



The adjacent list host the status of our current projects. Only a selected amount of projects are displayed.



07 Current Environmental Projects

071 EIA, Scoping & Opinion

Project Name	Status	Project
Basic Assessment(BA)		
Annlin X 138	In Progress	BA
Clubview X 29	ROD	BA
Darrenwood Dam	In Progress	BA
Durley Holding 90 & 91	In Progress	BA
Elim	In Progress	BA
Fochville X 3	In Progress	BA
Hartebeeshoek 251	In Progress	BA
Klerksdorp (Matlosana Mall)	In Progress	BA
Monavoni External Services	ROD	BA
Monavoni X 45	Amendment of ROD	BA
Montana X 146	In Progress	BA
Rooihuiskraal X29	In Progress	BA
Thorntree Mall	In Progress	BA

Environmental control officer (ECO)		
Grace Point Church	In Progress	ECO
R 81	In Progress	ECO
Highveld X 61	In Progress	ECO
Mall of the North	In Progress	ECO
Olievenhoutbosch Road	In Progress	ECO
Orchards 39	In Progress	ECO
Pierre van Ryneveld Reservoir	In Progress	ECO
Project Shelter	In Progress	ECO

S24 G		
Wonderboom	In Progress	S24 G
Mogwasi Guest houses	Completed	S24 G



07 Current Environmental Projects

072 BA, ECO & S24 G

Project Name	Status	Project
Objection		
Colesberg WWTW	In Progress	Objection
Nigel Steelmill	Completed	Objection
Chantilly Waters	Completed	Objection

Development facilitation Act- Input (DFA)		
Burgersfort	In Progress	DFA & BA
Doornpoort Filling Station	In Progress	DFA & EIA & Scoping
Eastwood Junction	In Progress	DFA
Ingersol Road (Erf 78, 81 - 83)	In Progress	DFA
Roos Senekal	In Progress	DFA & EIA & Scoping
Thaba Meetse 1	In Progress	DFA & EIA & Scoping

Water Use License Act (WULA)		
Britstown Bulk Water Supply	In Progress	WULA
Celery Road / Green Channel	In Progress	WULA
Clayville X 46	In Progress	WULA
Dindingwe Lodge	In Progress	WULA
Doornpoort Filling Station	In Progress	WULA+DFA+EIA+SC
Eco Park Dam	In Progress	WULA
Groote Drift Potch	In Progress	WULA
Jozini Shopping Centre	In Progress	WULA+BA
K60	Completed	WULA
Maloto Roads	In Progress	WULA
Kwazele Sewage Works	In Progress	WULA
Monavoni External Services	In Progress	WULA+BA
Nyathi Eco Estate	In Progress	WULA
Prairie Giants X 3	In Progress	WULA
Waveside Water Bottling Plant	Completed	WULA



07 Current Environmental Projects

073 Objection, DFA & WULA

Project Name	Status	Project
Environmental Management Plan(EMP)		
Heidelberg X 12	ROD	EMP
Monavoni Shopping Centre	Completed	EMP
Forest Hill Development	Completed	EMP
Weltevreden Farm 105KQ	Completed	EMP+EIA
Raslouw Holding 93	Completed	EMP+BA
Durley Development	Completed	EMP+BA
Rooihuiskraal North X 28	Completed	EMP

Rehabilitation Plan		
Norwood Mall/Sandspruit	In Progress	Rehabilitation
Project Shelter Heidelberg	In Progress	Rehabilitation
Sagewood Attenuation Pond	ROD	Rehabilitation
Velmore Hotel	Completed	Rehabilitation
Grace Point Church	Completed	Rehabilitation
Mmamelodi Pipeline	Completed	Rehabilitation

Visual Impact Assessment		
Swatzkop Industrial Developme	Completed	Assessment +DFA
Erasmia	Completed	Assessment

Signage Application		
Menlyn Advertising	Completed	Signage
The Villa Mall	Completed	Signage+EMP+BA



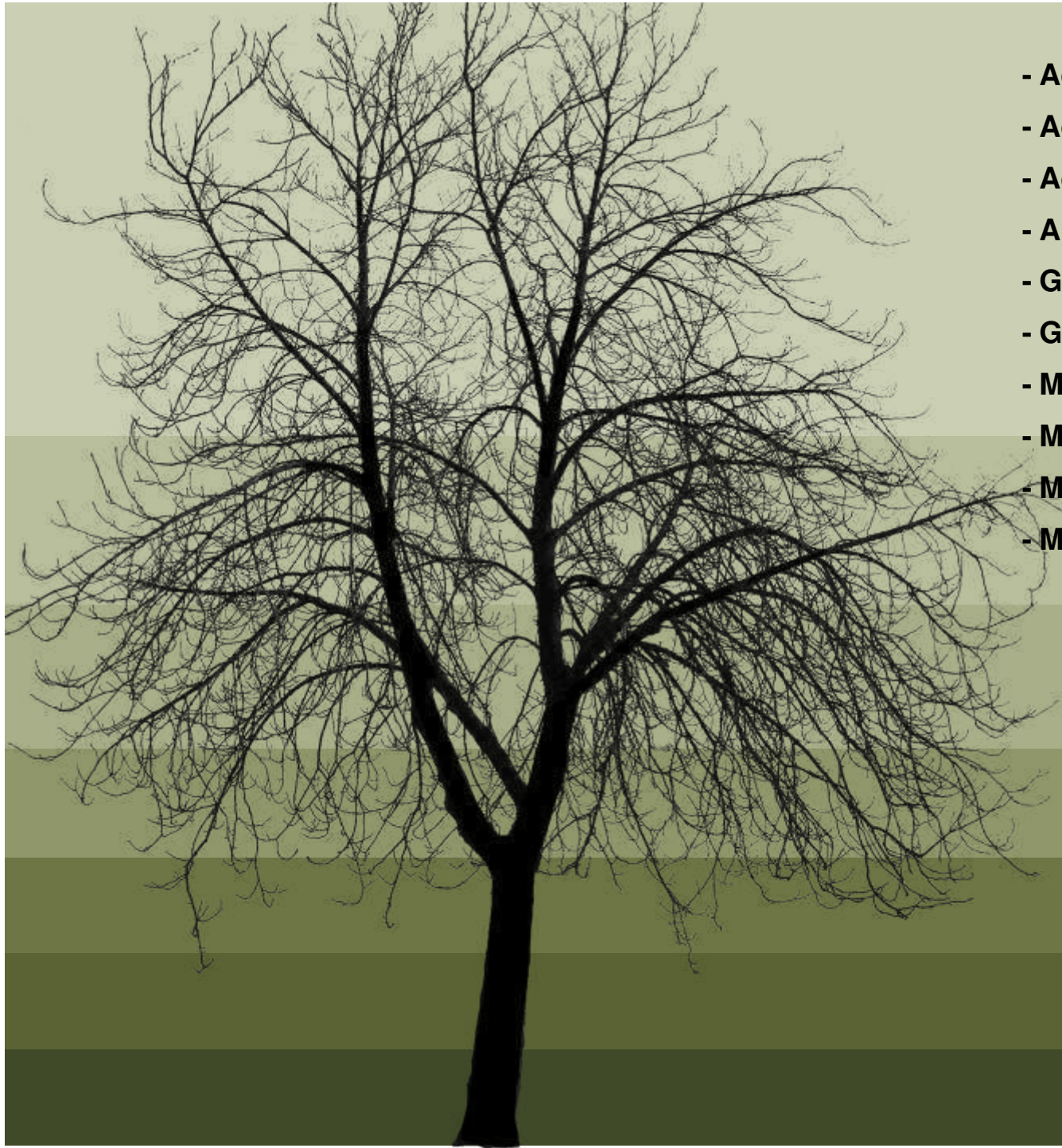
07 Current Environmental Projects

074 EMP, Rehabilitation , Waste Management & Signage Application

- Billion Property Group
- Cavaleros Developments
- Centro Developers
- Chaimberlains
- Chieftain
- Century Property Group
- Coca Cola
- Elmado Property Development
- Flanagan & Gerard
- Gautrans
- Hartland Property Group
- Moolman Group
- MTN
- M&T Development
- Old Mutual
- Property Investment Company
- Petroland Developments
- RSD Construction
- SAND
- Stephan Parsons
- Twin City Developments
- Urban Construction
- USN



08 Indicative Clients



- Adobe Illustrator CS3
- Adobe Photoshop CS3
- Adobe InDesign CS3
- AutoCAD
- Google SketchUP
- GIS
- Microsoft Office Word
- Microsoft Office Excel
- Microsoft Office Publisher
- Microsoft Office Power Point

Bokamoso 

Qualifications And Experience In The Field Of Environmental Planning And Management (Lizelle Gregory (Member Bokamoso)):

Qualifications:

- Qualified as **Landscape Architect** at UP 1991;
- Qualified as **Professional Landscape Architect in 1997**;
- A Registered Member at The **South African Council for the Landscape Architect Profession (SACLAP)** with Practise Number: **PrLArch97078**;
- A Registered Member at the **International Association for Impact Assessment Practitioners (IAIA)**;
- Qualified as an **Environmental Auditor in July 2008** and also became a Member of the International Environmental Management Association (IEMAS) in 2008.

Working Experience:

- Worked part time at Eco-Consult – 1988-1990;
- Worked part time at **Plan Associates as Landscape Architect in training** – 1990-1991;
- Worked as Landscape Architect at **Environmental Design Partnership (EDP)** from 1992 - 1994
- Practised under **Lizelle Gregory Landscape Architects** from 1994 until 1999;
- Lectured** at Part-Time at **UP** (1999) – Landscape Architecture and **TUT** (1998- 1999)- Environmental Planning and Plant Material Studies;
- Worked as **part time Landscape Architect and Environmental Consultant at Plan Associates** and **managed their environmental division for more than 10 years** – 1993 – 2008 (assisted the **PWV Consortium** with various road planning matters which amongst others included environmental Scans, EIA's, Scoping reports etc.)
- Renamed business as **Bokamoso in 2000** and is the only member of Bokamoso Landscape Architects and Environmental Consultants CC;
- More than 20 years experience in the compilation of Environmental Reports**, which amongst others included the compilation of various **DFA Regulation 31 Scoping Reports**, EIA's for EIA applications in terms of the applicable environmental legislation, Environmental Management Plans, Inputs for Spatial Development Frameworks, DP's, EMF's etc. Also included EIA Application on and adjacent to mining land and slimes dams (i.e. Brahm Fisherville, Doornkop)

Qualifications And Experience In The Field Of Landscape Architecture (Lizelle Gregory (Member Bokamoso)):

Landscape Architecture:

-Compiled landscape and rehabilitation plans for more than 22 years.

The most significant landscaping projects are as follows:

-Designed the Gardens of the Witbank Technicon (a branch of TUT). Also supervised the implementation of the campus gardens (2004);

-Lizelle Gregory was the Landscape Architect responsible for the paving and landscape design at the UNISA Sunnyside Campus and received a Corobrick Golden Award for the paving design at the campus (1998-2004);

-Bokamoso assisted with the design and implementation of a park for the City of Johannesburg in Tembisa (2010);

-The design and implementation of the landscape gardens (indigenous garden) at the new Coca-Cola Valpre Plant (2012-2013);

-Responsible for the rehabilitation and landscaping of Juksei River area at the Norwood Shopping Mall (Johannesburg) (2012-2013);

-Designed and implemented a garden of more than 3,5ha in Randburg (Mc Arthurpark). Bokamoso also seeded the lawn for the project (more than 2,5 ha of lawn successfully seeded) (1999);

-Bokamoso designed and implemented more than 800 townhouse complex gardens and submitted more than 500 Landscape Development Plans to CTMM for approval (1995 – 2013);

-Assisted with Landscape Designs and the Masterplan at Eco-Park (M&T Developments) (2005-2011);

-Bokamoso designed and implemented an indigenous garden at an office park adjacent to the Bronberg. In this garden it was also necessary to establish a special garden for the Juliana Golden Mole. During a recent site visit it was established that the moles are thriving in this garden. Special sandy soils had to be imported and special indigenous plants had to be established in the natural section of the garden.

-Lizelle Gregory also owns her own landscape contracting business. **For the past 20 years she trained more than 40 PDI jobless people (sourced from a church in Mamelodi)** to become landscape contracting workers. All the workers are (on a continuous basis) placed out to work at nurseries and other associated industries;

-Over the past 20 years the Bokamoso team compiled more than 800 landscape development plans and also implemented most of the gardens. Bokamoso also designed and implemented the irrigation for the gardens (in cases where irrigation was required). Lizelle regarded it as important to also obtain practical experience in the field of landscape implementation.