



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

REGISTRATION/LICENSING PART 1

COMPANY, BUSINESS, PARTNERSHIP OR COMMUNITY, NATIONAL OR PROVINCIAL GOVERNMENT

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

Indicate the nature of this application:

- New registration Minor change
 Formal amendment
 Registration Number

--	--	--	--	--	--	--	--

2. PARTICULARS OF THE APPLICANT

Application for:
(Mark one block with an X)

- Company, business, partnership or community (complete part 3,5,6,7 and 8)
 National or provincial government (complete part 4,5,6,7 and 8 excl. 8.1.2)

3. PARTICULARS OF THE COMPANY, BUSINESS, PARTNERSHIP OR COMMUNITY

3.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

3.2 Trading name if different from name of company, business, partnership or community:

3.3 Type of enterprise:
(Mark one block with an X)

- 06 Public Company (Ltd) 07 Private Company (Pty) Ltd
 08 Article 21 (Association Inc. under Article 21 of the Company Act No. 61 of 1973) 09 Limited By Guarantee
 10 External Company 11 External Company under article 21 of the Company Act No. 61 of 1973
 20 Transvaal Ordinance 21 Incorporated (Inc)
 22 Unlimited 23 Close Corporation (CC)
 Parastatal Trust
 Other [i.e. non-CIPRO Company types (e.g. Churches, Schools, Community Groups, etc.) excluding Trust and Parastatal]

3.4 Business enterprise registration number:

2005/006072/07

3.5 Date established:
(ccyy/mm/dd)

20050224

3.6 Country where established:

SOUTH AFRICA

3.7 VAT registration number:

SARS CURRENTLY PROCESSING
VAT APPLICATION

4. PARTICULARS OF NATIONAL OR PROVINCIAL GOVERNMENT

4.1 National Department:

4.2 a) Provincial Department:

b) Province:

5. APPLICANT CONTACT DETAILS

5.1 Postal Address:

Postal Code

5.2 Street Address (only if different from postal address):

Postal Code

5.3 Contact telephone number during office hours

Area/cell code Number Ext

Alternative contact number

Area/cell code Number Ext

5.4 E-mail

6. CONTACT PERSON DETAILS

6.1 Title 6.2 Name 6.3 Surname 6.4 Telephone
Area/cell code Number Ext 6.5 Cell Phone Number
Area/cell code Number 6.6 Fax
Area/cell code Number Ext 6.7 E-mail 6.8 Preferred Form Of Communication

Declaration by applicant (or person who was granted power of attorney by the applicant)

Surname of delegated person:

K H O S A

Title:

M R

Initials:

B

ID Number:

7 8 0 5 0 2 5 5 2 9 0 8 7

Passport Number:

(if not a holder of South African ID)

Expiry Date (ccyy/mmdd):

Delete the words that are not applicable I/we _____ (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Signature

Company Representative

Designation of signatory



Thumb print

COID 735 A518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

7. LIST OF PART 2 DOCUMENTS (WATER USE RELATED FORMS)

Mark with an X which of the following documents have been submitted with this application

- | | | | |
|-------------------------------------|-------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | DW760 NWA-Section 21(a) | <input checked="" type="checkbox"/> | DW768 NWA-Section 21(i) |
| <input type="checkbox"/> | DW761 NWA-Section 21(b) | <input type="checkbox"/> | DW780 NWA-Section 21(h) |
| <input checked="" type="checkbox"/> | DW762 NWA-Section 21(b) | <input checked="" type="checkbox"/> | DW805 NWA-Section 21(j) |
| <input checked="" type="checkbox"/> | DW763 NWA-Section 21(c) | <input type="checkbox"/> | DW806 NWA-Section 21(k) |
| <input type="checkbox"/> | DW764 NWA-Section 21(d) | <input checked="" type="checkbox"/> | DW901 Property or properties where water use occurs |
| <input checked="" type="checkbox"/> | DW765 NWA-Section 21(e) | <input checked="" type="checkbox"/> | DW902 Details of property owner |
| <input type="checkbox"/> | DW766 NWA-Section 21(f) | <input type="checkbox"/> | DW903 Actual/Monitored waste discharge details NWA-Section 21(f/h) |
| <input checked="" type="checkbox"/> | DW767 NWA-Section 21(g) | <input type="checkbox"/> | DW904 Actual/Monitored waste discharge details NWA-Section 21(e/g) |

8. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

8.1 Billing information

8.1.1 WMA for billing*

* Water Management Area Codes

01 Limpopo	05 Inkomati	09 Middle Vaal	13 Upper Orange	17 Olifants/Doorn
02 Luvuvhu/Letaba	06 Usutu-Mhlathuze	10 Lower Vaal	14 Lower Orange	18 Breede
03 Crocodile (W), Marico	07 Thukela	11 Mvoti-Umzimkulu	15 Fish-Tsitsikamma	19 Berg
04 Olifants	08 Upper Vaal	12 Mzimvubu-Keiskamma	16 Gouritz	

8.1.2 District Municipal Establishment Levy Payable Yes No

8.2 Mark with an X which of the following documents have been submitted with this application

- Certified copy of South African identity document
- Certified copy of passport

File number (i.e. Office Hardcopy Register File No)

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Date stamp of receiving office

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

L I M P O P O C O A L C O M P A N Y
(P T Y) L T D

2005/006072/07

CoAL House, Pinewood Office Park, Riley Road, Woodmead, Sandton, South
Africa

Telephone: +27 11 785 4510 Facsimile: +27 11 807 6654 Website:
www.coalofafrica.com

CIRCULAR RESOLUTION OF DIRECTORS

I the undersigned, being the Director of Limpopo Coal (Pty) Ltd, in accordance with the company's constitution **HEREBY RESOLVE** as follows:

**MINING, PROSPECTING,
EPLORATION AND PRODUCTION
RIGHTS APPLICATION**

That, Baldwin Khosa , ID No 7805025529087, be appointed as a company representative in relation to dealings between the Company and the South African Department of Minerals and Energy and the Petroleum Agency SA.

I **FURTHER RESOLVE** that, as a company representative, Baldwin Khosa be authorised and empowered to sign all documentation submitted or to be submitted to by or on behalf of the Company to the South African Department of Minerals and Energy and the Petroleum Agency SA and to give such undertakings on behalf of the Company as may be required from time to time to obtain prospecting rights, mining rights, exploration rights, production rights and any other rights or permits in terms of Mineral and Petroleum Resources development Act 28 of 2002.

Dated this 03 November 2008



Stephen Rowse

Directors: S R Rowse

L I M P O P O C O A L C O M P A N Y
(P T Y) L T D

2005/006072/07

CoAL House, Pinewood Office Park, Riley Road, Woodmead, Sandton, South
Africa

Telephone: +27 11 785 4510 Facsimile: +27 11 807 6654 Website:
www.coalofafrica.com

CIRCULAR RESOLUTION OF DIRECTORS

I the undersigned, being the Director of Limpopo Coal (Pty) Ltd, in accordance with the company's constitution HEREBY RESOLVE as follows:

**MINING, PROSPECTING,
EXPLORATION AND PRODUCTION
RIGHTS APPLICATION**

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Dated this 03 November 2008



Stephen Rowse

Directors: S R Rowse

GEREGISTREERDE WOON- EN POSADRES

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

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

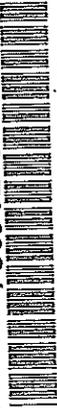
REGISTERED RESIDENTIAL AND POSTAL ADDRESS

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

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

1

I.D. No. 780502 5529 08 7



S. A. - BURGER/S. A. CITIZEN

VAN/SURNAME

KHOSA

VOORNAME/FORENAMES

BALDWIN

GEBORTEDISTRIK OF -LAND/
DISTRICT OR COUNTRY OF BIRTH

SOUTH AFRICA

GEBORTEDATUM/
DATE OF BIRTH

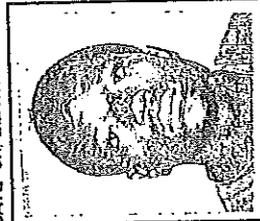
1978-05-02

DATUM UITGEREIK
DATE ISSUED

1996-06-24

UITGEREIK OP GESAG VAN DIE
DIREKTEUR-GENERAAL:
BINNELANDSE SAKE

ISSUED BY AUTHORITY OF THE
DIRECTOR-GENERAL:
HOME AFFAIRS



COMMISSIONER OF OATHS
Stephen Rowse
SAICA

Ref: 04859282

Commissioner of Oaths (RSA)
Ground floor, Nimag House
Pinewood Office Park, Riley road
Woodmead
P.O. Box 1401
Kelvin, 2054

[Signature] 5/11/2009

CERTIFIED A TRUE
COPY OF THE ORIGINAL



water & forestry

Department
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

**SUPPLEMENTARY WATER USE INFORMATION
PROPERTY WHERE WATER USE OCCURS**

DW901 serves to address the following: The property (or properties) where water use(s) is to take place.

• Complete one DW901 form for each property impacted / applicable to a water use registration application.

• Should more than one property owner be applicable to a "property where water occurs" an additional DW902 must be completed for each additional property owner.

1. PROPERTY WHERE WATER USE(S) OCCURS

1.1 Property where water use takes place (farm, stand or community): description as per the Deeds Act if applicable, or name of agricultural holding, farm, township, town or city.

Portions 3 & 4 of Overvlakte 125 MS

Registration Date (ccyymmdd):

--	--	--	--	--	--	--	--	--	--

1.2 Property Type (mark only one with an X)

Agricultural Holding

Erf

Exclusive Use Areas (EUA)

Farm

Sectional Scheme (To Obtain EUA)

Sectional Scheme (to obtain units)

Sectional Scheme Unit

Township

Unspecified

Unsurveyed

1.3 If the property type is unsurveyed, complete the following:

a) Surname and initials of leader of village, community or tribal authority

Initials

--	--	--	--	--	--

b) Local Authority

&/or

c) Magisterial District

&/or

d) Tribal Authority/Council

1.4 If the property type is not equal to unsurveyed, complete the following:

a) Deeds Office

Pretoria - both portions of the farm

b) Registration Division

Musina

c) Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

Overvlakte 125 MS

d) Portion of Property

3 & 4

e) Title Deed Number

Portions 3 & 4 - T44946/2009

f) Surveyor-General Cadastral Code

1 - 2 - 3 - 4 - 5

1. Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)

2. Major Code (Registration Division)

3. Minor code

4. Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

5. Portion Number

Note: All fields "left padded with 0"

1.5 Property Area Size

Measure Unit:

Hectares

Square Meters

Acres

1.6 Ownership of the property (mark only one with an X)

Property owned by applicant (100% Share value)

Property owned by applicant (Share value less than 100%)

Property leased by applicant

The property is communal land

2. PROPERTY OWNER RELATIONSHIP

Individual (Identify Number or Passport Number)	Company, Business, Partnership or Community (Business Enterprise Registration Number)	Property Owner Name	Property Owner Document Number (Owner's Title Deed Reference Number)	Property Owner and Property Relationship Date		Owner Share Value %
				From:	To:	
	2008/011655/07	Harrisia Investment Holdings (Pty) Ltd	T44946/2009	12 August 2009	Present	100%



water & forestry

Department:
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

**SUPPLEMENTARY WATER USE INFORMATION
PROPERTY WHERE WATER USE OCCURS**

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• Complete one DW901 form for each property impacted / applicable to a water use registration application.

• Should more than one property owner be applicable to a "property where water occurs" an additional DW902 must be completed for each additional property owner.

1. PROPERTY WHERE WATER USE(S) OCCURS

1.1 Property where water use takes place (farm, stand or community): description as per the Deeds Act if applicable, or name of agricultural holding, farm, township, town or city.

Portion 5 of Overvlakte 125 MS

Registration Date (ccyymmdd):

--	--	--	--	--	--	--	--	--	--

1.2 Property Type (mark only one with an X)

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Holding | <input type="checkbox"/> Erf |
| <input type="checkbox"/> Exclusive Use Areas (EUA) | <input checked="" type="checkbox"/> Farm |
| <input type="checkbox"/> Sectional Scheme (To Obtain EUA) | <input type="checkbox"/> Sectional Scheme (to obtain units) |
| <input type="checkbox"/> Sectional Scheme Unit | <input type="checkbox"/> Township |
| <input type="checkbox"/> Unspecified | <input type="checkbox"/> Unsurveyed |

1.3 If the property type is unsurveyed, complete the following:

a) Surname and initials of leader of village, community or tribal authority

Initials

--	--	--	--	--	--

b) Local Authority

&/or

c) Magisterial District

&/or

d) Tribal Authority/Council

1.4 If the property type is not equal to unsurveyed, complete the following:

a) Deeds Office

Pretoria

b) Registration Division

Musina

c) Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

Overvlakte 125 MS

d) Portion of Property

5

e) Title Deed Number

Portion 5 - T22619/2009

f) Surveyor-General Cadastral Code

1	T	2		3		4		5	

1. Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)

2. Major Code (Registration Division)

3. Minor code

4. Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

5. Portion Number

Note: All fields "left padded with 0"

1.5 Property Area Size

8	4	2	2	1	1	7
---	---	---	---	---	---	---

Measure Unit:

Hectares Square Meters Acres

1.6 Ownership of the property (mark only one with an X)

- Property owned by applicant (100% Share value)
- Property owned by applicant (Share value less than 100%)
- Property leased by applicant
- The property is communal land

2. PROPERTY OWNER RELATIONSHIP

Individual (Identity Number or Passport Number)	Company, Business, Partnership or Community (Business Enterprise Registration Number)	Property Owner Name	Property Owner Document Number (Owner's Title Deed Reference Number)	Property Owner and Property Relationship Date		Owner Share Value %
				From:	To:	
	2008/011655/07	Harrisia Investment Holdings (Pty) Ltd	T22619/2009	30 April 2009	Present	100%

3. DECLARATION BY APPLICANT (or person that was granted power of attorney by the applicant)

I declare that the property information given by me for registering this Water Use is true and correct.

Signature

[Handwritten signature in a box]

Date (ccymmdd)

[Date grid: 1 1 0 2]

Thumbprint (only if requested)

[Empty thumbprint box]

4. FOR OFFICE USE ONLY

Received by:

Surname

[Surname grid]

Initials

[Initials grid]

Position / Rank

[Position / Rank grid]

Signature

[Signature box]

Captured on NRWU database (ccymmdd)

[Date grid]

Captured by:

Surname

[Surname grid]

Initials

[Initials grid]

Signature

[Signature box]

[Large empty box for date stamp of receiving office]

Date stamp of receiving office

Quality Assurance Executed by:

Surname

[Surname grid]

Initials

[Initials grid]

Position / Rank

[Position / Rank grid]

Signature

[Signature box]

Date (ccymmdd)

[Date grid]



water & forestry

Department:
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

**SUPPLEMENTARY WATER USE INFORMATION
PROPERTY WHERE WATER USE OCCURS**

DW901 serves to address the following: The property (or properties) where water use(s) is to take place.

• Complete one DW901 form for each property impacted / applicable to a water use registration application.

• Should more than one property owner be applicable to a "property where water occurs" an additional DW902 must be completed for each additional property owner.

1. PROPERTY WHERE WATER USE(S) OCCURS

1.1 Property where water use takes place (farm, stand or community): description as per the Deeds Act if applicable, or name of agricultural holding, farm, township, town or city.

R/E of Bergen Op Zoom 124 MS

Registration Date (ccyymmdd):

2									
---	--	--	--	--	--	--	--	--	--

1.2 Property Type (mark only one with an X)

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Holding | <input type="checkbox"/> Erf |
| <input type="checkbox"/> Exclusive Use Areas (EUA) | <input checked="" type="checkbox"/> Farm |
| <input type="checkbox"/> Sectional Scheme (To Obtain EUA) | <input type="checkbox"/> Sectional Scheme (to obtain units) |
| <input type="checkbox"/> Sectional Scheme Unit | <input type="checkbox"/> Township |
| <input type="checkbox"/> Unspecified | <input type="checkbox"/> Unsurveyed |

1.3 If the property type is unsurveyed, complete the following:

a) Surname and initials of leader of village, community or tribal authority

--	--	--	--	--	--	--	--	--	--

Initials

--	--	--	--	--	--	--	--	--	--

b) Local Authority

--

&/or

c) Magisterial District

--

&/or

d) Tribal Authority/Council

--

1.4 If the property type is not equal to unsurveyed, complete the following:

a) Deeds Office

Pretoria

b) Registration Division

Musina

c) Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

Bergen Op Zoom 124 MS

d) Portion of Property

Remaining Extent

e) Title Deed Number

T12375/2009

3. DECLARATION BY APPLICANT (or person that was granted power of attorney by the applicant)

I declare that the property information given by me for registering this Water Use is true and correct.

Signature

Handwritten signature in a rectangular box.

Date (ccyymmdd)

Date grid containing the handwritten date 11/05.

Thumbprint (only if requested)

Empty rectangular box for a thumbprint.

4. FOR OFFICE USE ONLY

Received by:

Surname

Grid for receiving officer's surname.

Initials

Grid for receiving officer's initials.

Position / Rank

Grid for receiving officer's position or rank.

Signature

Empty rectangular box for receiving officer's signature.

Captured on NRWU database (ccyymmdd)

Grid for capture date on NRWU database.

Captured by:

Surname

Grid for capture officer's surname.

Initials

Grid for capture officer's initials.

Signature

Empty rectangular box for capture officer's signature.

Large rectangular box for the date stamp of the receiving office.

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Grid for QA officer's surname.

Initials

Grid for QA officer's initials.

Position / Rank

Grid for QA officer's position or rank.

Signature

Empty rectangular box for QA officer's signature.

Date (ccyymmdd)

Grid for QA officer's date.



water & forestry

Department:
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION
PROPERTY WHERE WATER USE OCCURS

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• Should more than one property owner be applicable to a "property where water occurs" an additional DW902 must be completed for each additional property owner.

1. PROPERTY WHERE WATER USE(S) OCCURS

1.1 Property where water use takes place (farm, stand or community): description as per the Deeds Act if applicable, or name of agricultural holding, farm, township, town or city.

Erfrust 123 MS

Registration Date (ccyymmdd):

2									
---	--	--	--	--	--	--	--	--	--

1.2 Property Type (mark only one with an X)

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Holding | <input type="checkbox"/> Erf |
| <input type="checkbox"/> Exclusive Use Areas (EUA) | <input checked="" type="checkbox"/> Farm |
| <input type="checkbox"/> Sectional Scheme (To Obtain EUA) | <input type="checkbox"/> Sectional Scheme (to obtain units) |
| <input type="checkbox"/> Sectional Scheme Unit | <input type="checkbox"/> Township |
| <input type="checkbox"/> Unspecified | <input type="checkbox"/> Unsurveyed |

1.3 If the property type is unsurveyed, complete the following:

a) Surname and initials of leader of village, community or tribal authority

Initials

--	--	--	--	--

b) Local Authority

&/or

c) Magisterial District

&/or

d) Tribal Authority/Council

1.4 If the property type is not equal to unsurveyed, complete the following:

a) Deeds Office

Pretoria

b) Registration Division

Musina

c) Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

Erfrust 123 MS

d) Portion of Property

Farm

e) Title Deed Number

T11442/2009

f) Surveyor-General Cadastral Code

1 - 2 - 3 - 4 - 5

1. Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)

2. Major Code (Registration Division)

3. Minor code

4. Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

5. Portion Number

Note: All fields "left padded with 0"

1.5 Property Area Size

,

Measure Unit:

Hectares

Square Meters

Acres

1.6 Ownership of the property (mark only one with an X)

Property owned by applicant (100% Share value)

Property leased by applicant

Property owned by applicant (Share value less than 100%)

The property is communal land

2. PROPERTY OWNER RELATIONSHIP

Individual (Identity Number or Passport Number)	Company, Business, Partnership or Community (Business Enterprise Registration Number)	Property Owner Name	Property Owner Document Number (Owner's Title Deed Reference Number)	Property Owner and Property Relationship Date		Owner Share Value %
				From:	To:	
	2008/011655/07	Harrisia Investment Holdings (Pty) Ltd	T11442/2009	6 March 2009	Present	100%

3. DECLARATION BY APPLICANT (or person that was granted power of attorney by the applicant)

I declare that the property information given by me for registering this Water Use is true and correct.

Signature

Handwritten signature in a rectangular box.

Date (ccyymmdd)

Date grid containing the handwritten date 1105.

Thumbprint (only if requested)

Empty rectangular box for a thumbprint.

4. FOR OFFICE USE ONLY

Received by:

Surname

Empty grid for receiving officer's surname.

Initials

Empty grid for receiving officer's initials.

Position / Rank

Empty grid for receiving officer's position/rank.

Signature

Empty rectangular box for receiving officer's signature.

Captured on NRWU database (ccyymmdd)

Empty grid for capture date on NRWU database.

Captured by:

Surname

Empty grid for capture officer's surname.

Initials

Empty grid for capture officer's initials.

Signature

Empty rectangular box for capture officer's signature.

Large empty rectangular box for the date stamp of the receiving office.

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Empty grid for QA officer's surname.

Initials

Empty grid for QA officer's initials.

Position / Rank

Empty grid for QA officer's position/rank.

Signature

Empty rectangular box for QA officer's signature.

Date (ccyymmdd)

Empty grid for QA officer's date.



water & forestry

Department:
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

**SUPPLEMENTARY WATER USE INFORMATION
DETAILS OF PROPERTY OWNER**

Should more than one property owner be applicable to a 'property where water use occurs', an additional DW902 must be completed for each additional property owner.

1. DETAILS OF PROPERTY OWNER

1.1 Nature of property owner (mark only one block with X)

- Individual (complete 1.2)
 Provincial Department (complete 1.5)
 Company, business, partnership or community (complete 1.3)
 Water Services Provider (complete 1.6)
 National Department (complete 1.4)
 Water User Association (complete 1.7)

1.2 If property owner is an individual

1.2.1 Surname Maiden Name
me

Initials Title Position or official status

Marital Status (mark only one): Married In Community Of Property Married Out Of Community Of Property
 Unmarried

1.2.2 If holder of South African ID:

ID Number

1.2.3 If not holder of South African ID:

Passport No.

Expiry Date (ccyymmdd)

Country of issue

1.3 If the property owner is a company, business, partnership or community:

1.3.1 Name of company, business, partnership or community:

1.3.2 Trading name if different from name of company, business, partnership or community:

1.3.3 Type of Enterprise (mark only one with an X)

- 06 Public Company (Ltd)
 07 Private Company (Pty) Ltd
 08 Article 21 (Association inc under Section 21)
 09 Limited By Guarantee
 10 External Company
 11 External Company under Article 21
 20 Transvaal Ordinance
 21 Incorporated (Inc)
 22 Unlimited
 23 Close Corporation (CC)
 Parastatal
 Trust
 Other [i.e. Non-CIPRO Company Types (e.g. Churches, Schools, Community Groups, etc.) excluding Trust & Parastatal]

1.3.4 Business Enterprise Registration Number /

1.3.5 Date Established (ccyymmdd)

Country Where Established

1.4 If the property owner is a National Department:

1.4.1 National Department Name:

1.5 If the property owner is a Provincial Department:

1.5.1 Province:

1.5.2 Provincial Department Name:

1.6 If the property owner is a Water Services Provider:

1.6.1 Name of WSP:

1.7 If the property owner is a Water User Association:

1.7.1 Name of WUA:

1.8 Postal Address:

Postal Code

1.9 Street Address (only if different from postal address):

Postal Code

1.10 Contact Telephone Number During Office Hours

Area/cell code Number Ext

Alternative contact number

Area/cell code Number Ext

2. DECLARATION BY PROPERTY OWNER**2.1 Property owner or delegated person:**

Surname

Initials Title

ID number

2.2 If not a holder of South African ID:

Passport No.

Expiry Date (ccyymmdd)

Country of issue

2.3 Position or official status:

I declare that the applicant defined in this application has lawful access to the property and carry out the water use activity or activities related to this application.

Signature Date (ccyymmdd) Thumbprint (only if requested)

3. LIST OF ATTACHED DOCUMENTS (mark each document type attached with an X)

- 3.1 Certified copy of identity document or passport.
- 3.2 Certified copy of Property Owner Document [refer Section 2 of DW901 (Property Title Deed or Deeds printout)].
- 3 Certified copy of lease agreement (refer paragraph 1.6 of DW901)
- 3.4 Certified copy of the "power of attorney" or appropriate supporting documentation

GEREGISTREERDE WOON- EN POSADRES

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

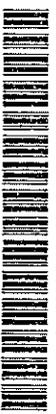
2. Indien u van adres verander het, of indien besonderhede van u huidige adres, bv. straatnaam en/of -nommer, ens. verander het, moet die vorm KENNIGWING VAN ADRES/VERANDERING, wat in die sakkie agter in die identiteitsdokument is, gebruik word om die verandering aan te meld en moet dit ingedien word by of geops word aan die nasie streeks-/distriktkantoor van die DEPARTEMENT VAN BINNELANDSE SAKE.

REGISTERED RESIDENTIAL AND POSTAL ADDRESS

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

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

I.D. No. 740113 5191 08 1



S.A. BURGER/S.A. CITIZEN

VAN/SURNAME

ROWSE

VOORNAME/FORENAMES

STEPHEN ROBERT

GEBORTE/DISTRIK OF-LAND/
DISTRICT OR COUNTRY OF BIRTH

SOUTH AFRICA

GEBORTE/DATUM/
DATE OF BIRTH

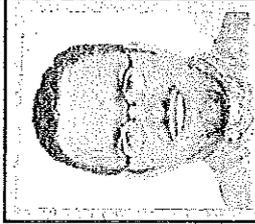
1974-01-13

DATUM UITGEREIK
DATE ISSUED

2002-01-08

UITGEREIK OP BESAG VAN DIE
DIREKTEUR-GENERAAL:
BINNELANDSE SAKE

ISSUED BY AUTHORITY OF THE
DIRECTOR-GENERAL:
HOME AFFAIRS



SOUTH AFRICAN POLICE SERVICE
CLIENT SERVICE CENTRE
2000-01-02
POSEPARK
SUID-AFRIKAANSE POLISEDIENST

EK SERTIFISEER DAT HIERDIE DOKUMENT DIE AFDRIK (AFSKRIEF) OF WAAKEMERING VAN DIE OORSPROONKLIKE DOKUMENT IS. EK SERTIFISEER VERDER DAT WAAKEMERINGS DAAR VANSGING OF VERANDERING OF ER ANDER VERANDERING TOEGESTEMMINGS VERANDERING IS NIE.

I CERTIFY THAT THIS DOCUMENT IS A TRUE REPRODUCTION (COPY) OF ORIGINAL DOCUMENT WHICH WAS SUBMITTED TO ME FOR AUTHENTICATION. I FURTHER CERTIFY THAT FROM MY OWN KNOWLEDGE, AN AMENDMENT OR CHANGE WAS NOT MADE TO THE ORIGINAL DOCUMENT.

TEKENING/SIGNATURE

Stephen Rouse

RANG RANK

BOESOMMER

NAME IN PRINT

Stephen Rouse

FOR OFFICIAL USE ONLY

File number	<input type="text"/>	
Water use licence or registration number	<input type="text"/>	
Water Management Area	<input type="text"/>	
Received by:	<input type="text"/>	
Surname		Initials
<input type="text"/>		<input type="text"/>
Rank		<input type="text"/>
Signature		<input type="text"/>
<input type="text"/>		
Captured by:		
Initials		
<input type="text"/>		
	<i>Date stamp of receiving office</i>	



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES ESTELLE LYNETTE
POSTAL ADDRESS PO BOX 98 MUSINA 0900	
ID NUMBER 491211 0042 08 4	TITLE MRS
TELEPHONE NUMBER AND CODE	FAX NO. AND CODE
CELLPHONE NO.	EMAIL

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 PTN 3 OVER VLAKTE 125 MS	342,6128	T44346/2009
2 PTN 4 OVER VLAKTE 125 MS	342,2097	T44346/2009
3		
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1			R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1		
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association		① 27006702	
Government Water Scheme		② 27006711	
Other body			
River			
Borehole.			

6. DECLARATIONS BY APPLICANTS:

6.1 I, the OWNER OR AUTHORISED REPRESENTATIVE of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the BENEFICIARY to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at..... on theday of200.. in the presence of the witnesses below:

RELINQUISHER.

Witness 1:.....Initials and Surname:.....

Witness 2:.....Initials and Surname

7 DETAILS OF BENEFICIARY:

SURNAME COMPANY HARRISIA INVESTMENT HOLDINGS	FULL NAMES (PTY) LIMITED
POSTAL ADDRESS PO BOX 1A01 KELVIN 2054	
ID NUMBER REGISTRATION NO 2008 / 011655107	TITLE-
TELEPHONE NUMBER AND CODE 011 785 4518	FAX NUMBER AND CODE 011 507 2161
CELL PHONE NO. 083 545 9144	EMAIL stephen@coalofafrica.co.za

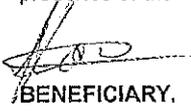
8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

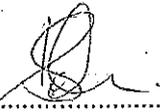
	NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1	PTN 3 OVER VLAKTE 125 MS	842,6128	TA4346 / 2009
2	PTN 4 OVER VLAKTE 125 MS	842,2097	TA4346 / 2009
3			
4			

9 DECLARATION BY BENEFICIARY:

I, the OWNER OR AUTHORISED REPRESENTATIVE of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Woodmead on the 7th day of October 2009 in the presence of the witnesses below.


BENEFICIARY.

Witness 1:  Initials and Surname: S. Ndlovu

Witness 2:  Initials and Surname B. Mawuna.

Transfer recommended/ not recommended.....(Stamp of the Responsible Authority here)

Date :



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE		FULL NAMES WILLEM PETRUS	
POSTAL ADDRESS PO BOX 87 MUSINA 0900			
ID NUMBER 460307 5006 08 7		TITLE MR	
TELEPHONE NUMBER AND CODE 015 534 2852		FAX NO. AND CODE 086 604 9783	
CELLPHONE NO.		EMAIL wpesterhuys@limpopo.co.za	

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

	NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1	PTN S OVER VLAKTE 125 MR LIMPOPO	842,2117	T 22619/2009
2			(PREVIOUS TITLE DEED NO
3			T 2400/2000)
4			

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1	3026200 m³		R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1	3026200 m³	
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association			
Government Water Scheme			
Other body			
River	LIMPOPO RIVER	27019556	
Borehole.		DATED 25/5/2001	

6. DECLARATIONS BY APPLICANTS:

6.1 I, the OWNER OR AUTHORISED REPRESENTATIVE of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the BENEFICIARY to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at..... on theday of200... in the presence of the witnesses below:

RELINQUISHER.

Witness 1:.....Initials and Surname:.....

Witness 2:.....Initials and Surname

7 DETAILS OF BENEFICIARY:

SURNAME HARRISIA INVESTMENT HOLDINGS (PTY) LIMITED		FULL NAMES HARRISIA INVESTMENT HOLDINGS (PTY) LIMITED	
POSTAL ADDRESS PO BOX 1574 HOUGHTON 2041			
ID NUMBER REGISTRATION NO 2008/011655/07		FILE COMPANY	
TELEPHONE NUMBER AND CODE 011 785 4507		FAX NUMBER AND CODE 0866 581 041	
CELL PHONE NO. 083 545 9144		EMAIL stephen.rowse@coalofafrica.co.za	

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

	NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1	PTNS OVER VLAKTE 125 MR LIMPOPO	842, 2117	T 22619 2009
2			
3			
4			

9 DECLARATION BY BENEFICIARY:

I, the OWNER OR AUTHORISED REPRESENTATIVE of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Wardmead on the 7th day of October 200⁸ in the presence of the witnesses below.

BENEFICIARY.

Witness 1: [Signature] Initials and Surname: B. MAOUNA

Witness 2: [Signature] Initials and Surname L.P. MOKETZ

Transfer recommended/ not recommended.....(Stamp of the Responsible Authority here)

Date :.....



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES ESTELLE LYNETTE
POSTAL ADDRESS PO BOX 98 MUSINA 0900	
ID NUMBER 491211 0042 08 4	TITLE MRS
TELEPHONE NUMBER AND CODE	FAX NO. AND CODE
CELLPHONE NO.	EMAIL

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 PTN 3 OVER VLAKTE 12S MS	342,6128	T44346/2009
2 PTN 4 OVER VLAKTE 12S MS	842,2097	T44346/2009
3		
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1			R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1		
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association		(1) 27006702	
Government Water Scheme		(2) 27006711	
Other body			
River			
Borehole.			

6. DECLARATIONS BY APPLICANTS:

- 6.1 I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the **BENEFICIARY** to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at MUSINA on the 15TH day of SEPTEMBER 2009 in the presence of the witnesses below:


RELINQUISHER: Sterlyu

Witness 1: Evdock Initials and Surname: E. van der Walt

Witness 2: M. Monyai Initials and Surname: M. Monyai

7 DETAILS OF BENEFICIARY:

SURNAME COMPANY	FULL NAMES
HARRISIA INVESTMENT HOLDINGS (PTY) LIMITED	
POSTAL ADDRESS	
PO BOX 1A01 KELVIN 2054	
ID-NUMBER REGISTRATION NO	TITLE
2008 / 011655107	
TELEPHONE NUMBER AND CODE	FAX NUMBER AND CODE
CELL PHONE NO.	EMAIL

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

	NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1	PTN 3 OVERVLAKTE 125 MS	842,6128	TAA3AG/2009
2	PTN 4 OVERVLAKTE 125 MS	842,2097	TAA3AG/2009
3			
4			

9 DECLARATION BY BENEFICIARY:  SEE SEPARATELY SIGNED APPLICATION FOR SIGNATURE BY BENEFICIARY

I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at on the day of 200 in the presence of the witnesses below.

BENEFICIARY.

Witness 1: Initials and Surname:

Witness 2: Initials and Surname

Transfer recommended/ not recommended (Stamp of the Responsible Authority here)

Date :



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES ESTELLE LYNETTE
POSTAL ADDRESS PO BOX 98 MUSINA 0900	
ID NUMBER 491211 0042 08 4	TITLE MRS
TELEPHONE NUMBER AND CODE	FAX NO. AND CODE
CELLPHONE NO.	EMAIL

2 DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 PTN3 OVER VLAKTE 125 MS	342,6128	T44346/2009
2 PTN 4 OVER VLAKTE 125 MS	342,2097	T44346/2009
3		
4		

3 DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (Ax B)	Annual Charge (R)
1			R
2			R
3			R
4			R

4 DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1		
2		
3		
4		

5 DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association		① 27006702	
Government Water Scheme		② 27006711	
Other body			
River			
Borehole			

6. DECLARATIONS BY APPLICANTS:

6.1 I, the OWNER OR AUTHORISED REPRESENTATIVE of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the BENEFICIARY to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at..... on theday of200.. In the presence of the witnesses below:

*** SEE SEPARATELY SIGNED APPLICATION FOR SIGNATURE BY RELINQUISHER**

RELINQUISHER.

Witness 1:.....Initials and Surname:.....

Witness 2:.....Initials and Surname.....

7 DETAILS OF BENEFICIARY:

SURNAME COMPANY		FULL NAMES	
HARRISIA INVESTMENT HOLDINGS		(PTY) LIMITED	
POSTAL ADDRESS			
PO BOX 1401 KELVIN 2054			
ID NUMBER REGISTRATION NO		TITLE	
2008/011655107			
TELEPHONE NUMBER AND CODE		FAX NUMBER AND CODE	
011 785 4518		011 807 2161	
CELL PHONE NO.		EMAIL	
073 545 9144		stephen@coalofafrica.co.za	

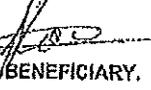
8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1 PTN 3 OVER VLAKTE 125 MS	842,6128	TAA346/2009
2 PTN 4 OVER VLAKTE 125 MS	842,2097	TAA346/2009
3		
4		

9 DECLARATION BY BENEFICIARY:

I, the OWNER OR AUTHORISED REPRESENTATIVE of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Woodward on the 7th day of October 2009 in the presence of the witnesses below.


BENEFICIARY.

Witness 1:.....Initials and Surname:..... S. Ndlovu

Witness 2:.....Initials and Surname..... B. Mhuma

Transfer recommended/ not recommended.....(Stamp of this Responsible Authority here)

Date:



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27006702

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

Ms EL ESTERHUYSE
4912110042001
POSBUS 98
MESSINA
0800

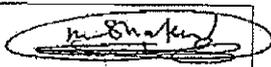
To use water on the following property :-

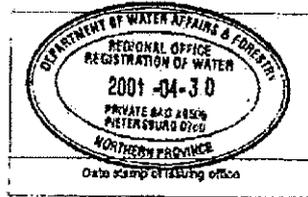
OVER VLAKTE MS 125 GED 3
T81218/1994

For the water use(s) of :-

Section 21(a) Taking water from a water resource.

(See attached Annexure)


Regional Director



Date / /
Northern Province Region

DISCLAIMER
This certificate is -
1. not an acknowledgment of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 1000000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 1

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 2

DISCLAIMER:

This certificate is:-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27006711

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is Issued to :-

M^s EL ESTERHUYSE
4912110042001
POSBUS 98
MESSINA
0900

To use water on the following property :-

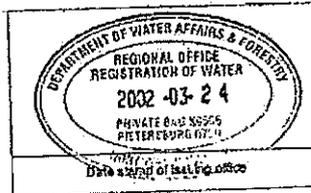
OVER VLAKTE MS 125 GED 4
T81216/1094

For the water use(s) of :-

Section 21(a) Taking water from a water resource.
Section 21(b) Storing water.

(See attached Annexure)

Regional Director



Date 15/03/02
Northern Province Region

DISCLAIMER:

- This certificate is :-
1. not an acknowledgement of an entitlement to the registered water use;
 2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
 3. substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 230000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 1

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 2

Handwritten initials

DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without conditions or measures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Storing water in terms of Section 21(b) of the National Water Act

Storing water not containing waste

Total volume: 74000.00 cubic metres in 2 dams

Water course(s): ONBEKEND

Date registered: 2001-03-20

Water Use No: 3

UE

DISCLAIMER:

This certificate is:

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or signatures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE		FULL NAMES WILLEM PETRUS	
POSTAL ADDRESS PO BOX 87 MUSINA 0900			
ID NUMBER A6 0307 5006 087		TITLE MR	
TELEPHONE NUMBER AND CODE 015 534 2852		FAX NO. AND CODE 086 604 9783	
CELLPHONE NO. 0833 008 915		EMAIL wpesterhuys@limpopo.co.za	

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

	NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1	PTN 5 OVERVLAKTE 125	842, 2117	T 22619 2009
2	MS LIMPOPO		(PREVIOUS TITLE DEED NO
3			T 2400 2000)
4			

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1	4126200 m³		
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1	4126200 m³	
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association			
Government Water Scheme			
Other body			
River	LIMPOPO RIVER	27019556	
Borehole.		DATED 25/5/2001	

WPE

6. DECLARATIONS BY APPLICANTS:

6.1 I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the **BENEFICIARY** to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at MUSINA on the 23RD day of SEPTEMBER 2009 in the presence of the witnesses below:

RELINQUISHER.

W.P. Esterhuysen

Witness 1: W.P. Esterhuysen Initials and Surname: M.S. ESTERHUYSEN

Witness 2: M. ALEXANDER Initials and Surname: A. ALEXANDER

7 DETAILS OF BENEFICIARY:

SURNAME COMPANY HARRISIA INVESTMENT HOLDINGS (PTY) LIMITED		FULL NAMES	
POSTAL ADDRESS PO BOX 1574 HOUGHTON 2041			
ID NUMBER REGISTRATION NUMBER 011 785 4507 2008/011		TITLE COMPANY 655/07	
TELEPHONE NUMBER AND CODE 011 785 4507		FAX NUMBER AND CODE	
CELL PHONE NO. 083 545		EMAIL stephen.rowse@coalofafrica.co.za	

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

	NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1	PTN 5 OVER VLAKTE 125	842,2117	T22619/2009
2	MS LIMPOPO		
3			
4			

9 DECLARATION BY BENEFICIARY: **SEE SEPARATE APPLICATION SIGNED BY THE NEW REGISTERED OWNER**

I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at..... on theday of200 in the presence of the witnesses below.

BENEFICIARY.

Witness 1:.....Initials and Surname:.....

Witness 2:.....Initials and Surname.....

Transfer recommended/ not recommended.....(Stamp of the Responsible Authority here)

Date :.....



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES WILLEM PETRUS
POSTAL ADDRESS PO BOX 87 MUSINA 0900	
ID NUMBER AG 0307 5006 087	TITLE MR
TELEPHONE NUMBER AND CODE 015 534 2852	FAX NO. AND CODE 086 604 9783
CELLPHONE NO. 0833 008 915	EMAIL wpesterhuuse@limpopo.co.za

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 PTN 5 OVERVLAKTE 125	842, 2117	T 22619 2009
2 M.S.LIMPOPO		(PREVIOUS TITLE DEED NO
3		T 2400 2000)
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under '2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1	4126200 m ³		R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1	4126200 m ³	
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association			
Government Water Scheme			
Other body			
River	LIMPOPO RIVER	27019556	
Borehole.		DATED 25/5/2001	



SEE SEPARATE APPLICATION SIGNED BY PREVIOUS OWNER

6. DECLARATIONS BY APPLICANTS:

6.1 I, the OWNER OR AUTHORISED REPRESENTATIVE of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the BENEFICIARY to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at..... on theday of200... in the presence of the witnesses below:

RELINQUISHER.

Witness 1:..... Initials and Surname:.....

Witness 2:..... Initials and Surname

7 DETAILS OF BENEFICIARY:

SURNAME HARRISIA INVESTMENT HOLDINGS (PTY) LIMITED		FULL NAMES	
POSTAL ADDRESS PO BOX 1574 HOUGHTON 2041			
ID NUMBER REGISTRATION NO 2008/01855/07		RHS COMPANY	
TELEPHONE NUMBER AND CODE 011 785 4507		FAX NUMBER AND CODE 0866 581 041	
CELL PHONE NO. 083 645 9144		EMAIL stephen.rowse@coalofafrica.co.za	

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

	NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1	PTNS OVER VLAKTE 125 MS	842,2117	T 22619 2009
2	LIMPOPO		
3			
4			

9 DECLARATION BY BENEFICIARY:

I, the OWNER OR AUTHORISED REPRESENTATIVE of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Woodhead on the 7th day of October 200... in the presence of the witnesses below.

BENEFICIARY.

Witness 1: R. MAOUNA Initials and Surname: R. MAOUNA

Witness 2: L.P. MOREBE Initials and Surname L.P. MOREBE

Transfer recommended/ not recommended..... (Stamp of the Responsible Authority here)

Date :.....



27019556

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998(ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

Mr WP ESTERHUYSE
4603075006087
POSBUS 87
MESSINA
0900

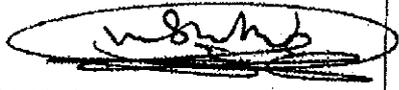
To use water on the following property :-

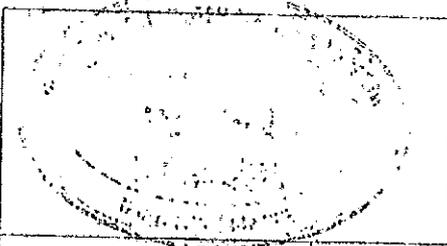
OVERVLAKTE MS 125 GED 5
T2400/2000

For the water use(s) of :-

Section 21(a) Taking water from a water resource.
Section 21(b) Storing water.

(See attached Annexure)


Regional Director


Data stamp of issuing office

Date ____ / ____ / ____
Northern Province Region

DISCLAIMER:
This certificate is :-
1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. In substitution of any registration certificate that may have been previously issued by the Department.



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-05-25

Water Use No: 1

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 3026200.00 cubic metres

Date registered: 2001-05-25

Water Use No: 3

DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Storing water in terms of Section 21(b) of the National Water Act

Storing water not containing waste

Total volume: 24500.00 cubic metres in 3 dams

Water course(s): ONBEKEND

Date registered: 2001-05-25

Water Use No: 2

DISCLAIMER:

This certificate is :-

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2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

ON BEHALF OF HARSIA INVESTMENT HOLDINGS (PTY) LTD

SURNAME ROWSE	FULL NAMES STEPHEN ROBERT
POSTAL ADDRESS PO BOX 6957 BRYANSTON 2021	
ID NUMBER 7401135191 001	TITLE MR
TELEPHONE NUMBER AND CODE 011-785-4518	FAX NO. AND CODE 0866 381 041
CELLPHONE NO. 083 545 9144	EMAIL stephen@coalofafrica.co.za

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 OVERVLAKTE (PORTION 3)	342 ha	T44946/2009
2 OVERVLAKTE - PORTION 4	842 ha	
3		
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (Ax B)	Annual Charge (R)
1	4.33 million		R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1	1.533 million.	2.797 million
2	From agriculture	
3	to industrial	
4	(mining)	

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association		① 27006702	
Government Water Scheme		② 27006711	
Other body			
River			
Borehole.			

6. DECLARATIONS BY APPLICANTS:

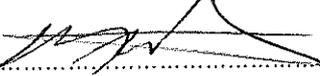
6.1 I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the **BENEFICIARY** to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at Woodmead on the 5TH day of November 2009 in the presence of the witnesses below:



RELINQUISHER

Witness 1:  Initials and Surname: B. Khosa

Witness 2:  Initials and Surname M.R. MOURING

7 DETAILS OF BENEFICIARY:

ON BEHALF OF LIMPOPO COAL COMPANY (PTY) LTD

SURNAME <u>ROUSE</u>	FULL NAMES <u>STEPHEN ROBERT</u>
POSTAL ADDRESS <u>PO BOX 69517</u> <u>BRYANSTON, 2021</u>	
ID NUMBER <u>7401135791081</u>	TITLE <u>MR</u>
TELEPHONE NUMBER AND CODE <u>011-985-4510</u>	FAX NUMBER AND CODE <u>0866 381 041</u>
CELL PHONE NO. <u>083 545 9144</u>	EMAIL <u>stephen@coalofafrica.co.za</u>

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

	NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1			
2			
3			
4			

9 DECLARATION BY BENEFICIARY:

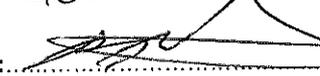
I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Woodmead on the 5TH day of November 2009 in the presence of the witnesses below.



BENEFICIARY

Witness 1:  Initials and Surname: B. Khosa

Witness 2:  Initials and Surname M.R. MOURING

Transfer recommended/ not recommended.....(Stamp of the Responsible Authority here)

Date :

HARRISIA INVESTMENT HOLDINGS (PTY) LTD

2008/011655/07

(a wholly owned subsidiary of Coal of Africa Limited)

8 October 2009

To whom It may concern

RE: HARRISIA INVESTMENT HOLDINGS' WATER RIGHTS

Harrisia Investment Holdings (Pty) Ltd ("Harrisia" or "the Company") is a wholly owned subsidiary of Coal of Africa Limited ("CoAL"), an Australian company listed on the ASX, AIM (London) and JSE. CoAL owns 74% of Limpopo Coal Company (Pty) Ltd ("LCC"), the company that owns the New Order Prospecting Rights for the Vele coking coal project located approximately 45 km's west of Musina in the Limpopo Province.

Harrisia has acquired portions 3, 4 and 5 of the farm Overvlakte 125 MS as well as the water rights associated with these farms. The Company is in the process of transferring the water rights from the previous owners and plans on amending the purpose of the water use of some of the licenses from agricultural to industrial use.

Assuming the Department of Mineral Resources grants LCC a New Order Mining Right, a portion of the farms will be leased to LCC for mining purposes and the remaining area will be leased for farming. The Industrial water use licenses will be used on the areas where mining activities occur.



Regards
Stephen Rowse





DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27006702

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

Ms EL ESTERHUYSE
4912110042001
POSBUS 98
MESSINA
0200

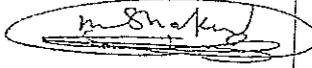
To use water on the following property :-

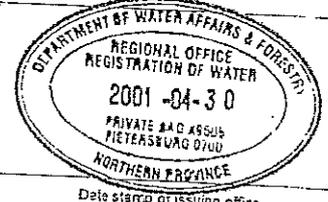
OVER VLAKTE MS 125 GED 3
T81218/1994

For the water use(s) of :-

Section 21(e) Taking water from a water resource.

(See attached Annexure)


Regional Director


DEPARTMENT OF WATER AFFAIRS & FORESTRY
REGIONAL OFFICE
REGISTRATION OF WATER
2001-04-30
PRIVATE SAC 49505
PIETERSBURG 0700
NORTHERN PROVINCE
Date stamp of issuing office

Date _____
Northern Province Region

DISCLAIMER:

- This certificate is :-
1. not an acknowledgement of an entitlement to the registered water use;
 2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
 3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 1900000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 1

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 2

DISCLAIMER:

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3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27006711

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998(ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

Ms EL ESTERHUYSE
4912110042001
POSBUS 98
MESSINA
0900

To use water on the following property :-

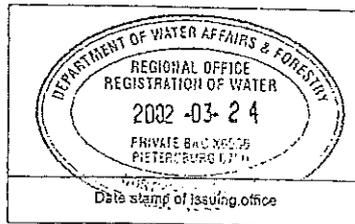
OVER VLAKTE MS 125 GED 4
T81218/1994

For the water use(s) of :-

Section 21(a) Taking water from a water resource.
Section 21(b) Storing water.

(See attached Annexure)


Regional Director



Date 15/04/08

Northern Province Region

DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
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3. is substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 230000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 1

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 2

[Handwritten signature]

DISCLAIMER :

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. Issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. In substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Storing water in terms of Section 21(b) of the National Water Act

Storing water not containing waste
Total volume: 74000.00 cubic metres in 2 dams
Water course(s): ONBEKEND

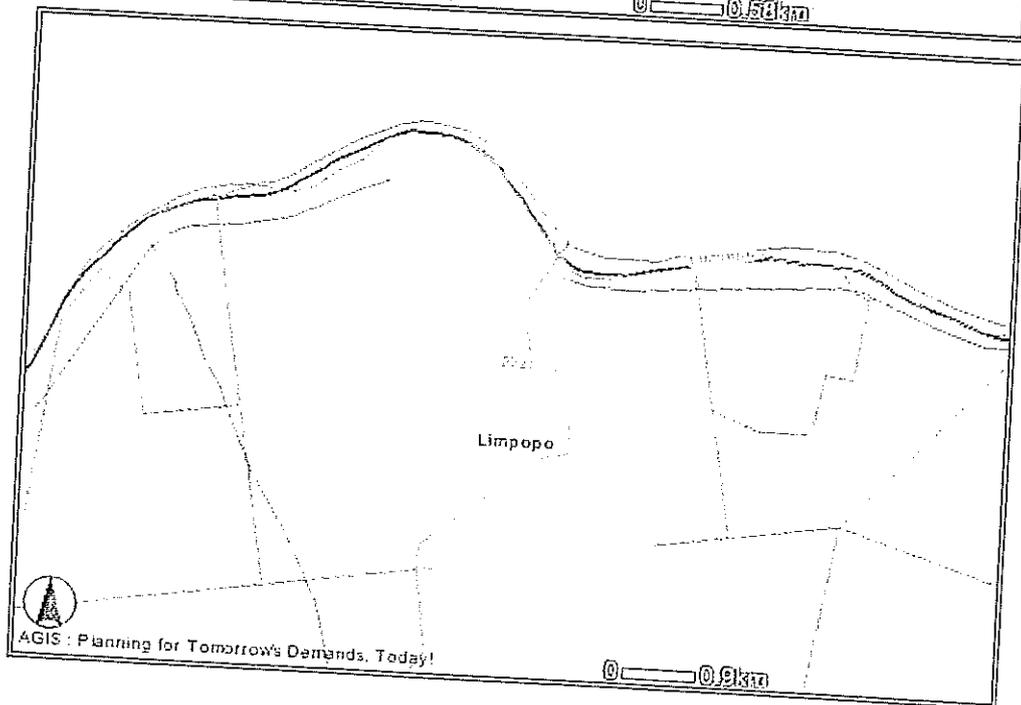
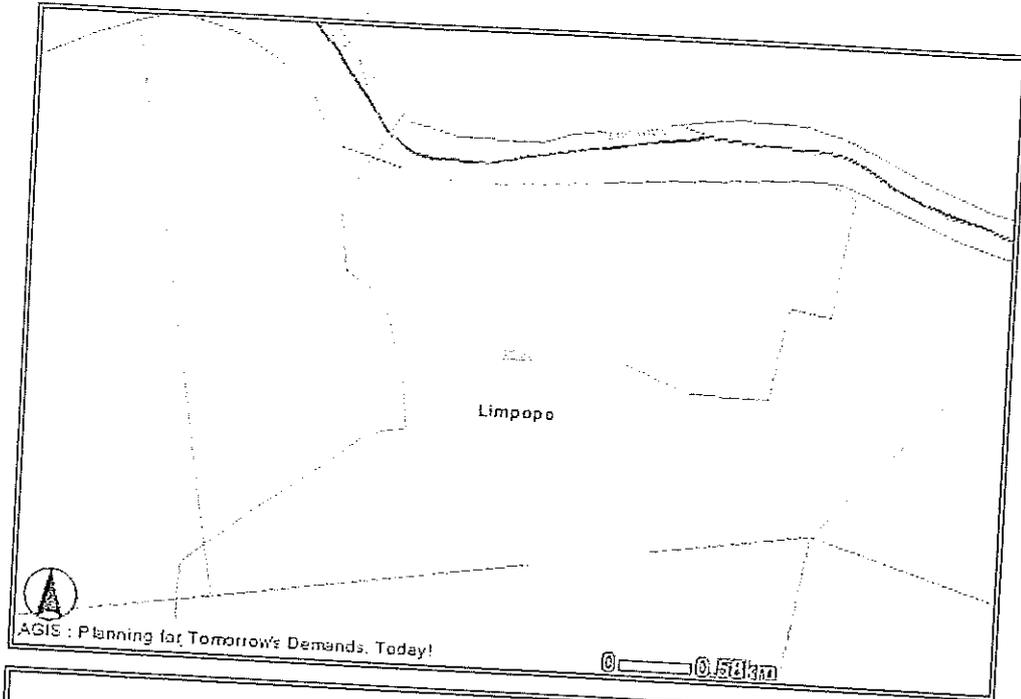
Date registered: 2001-03-20

Water Use No: 3

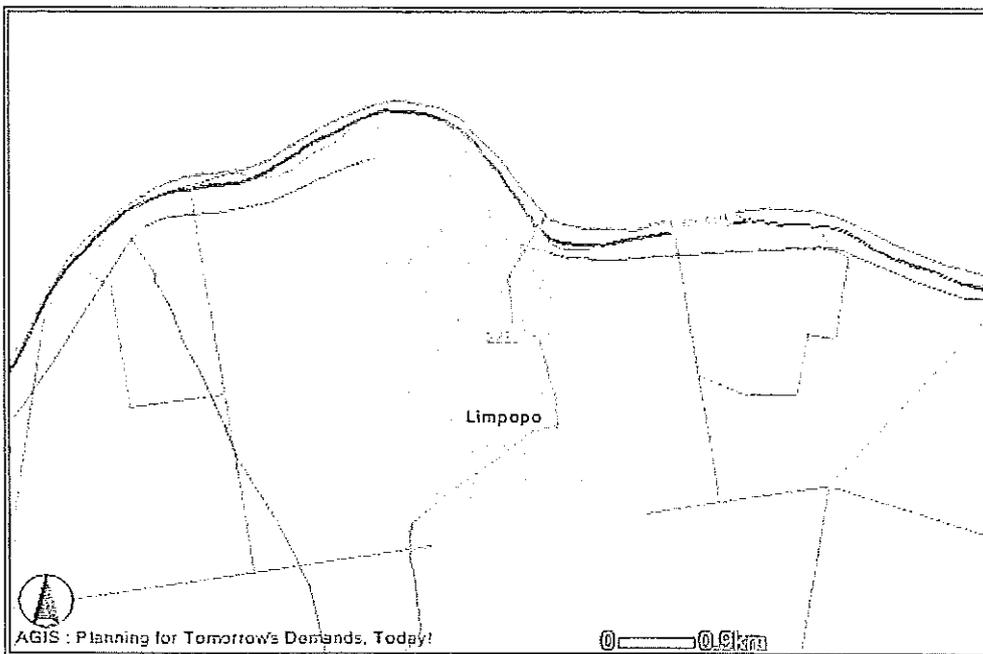
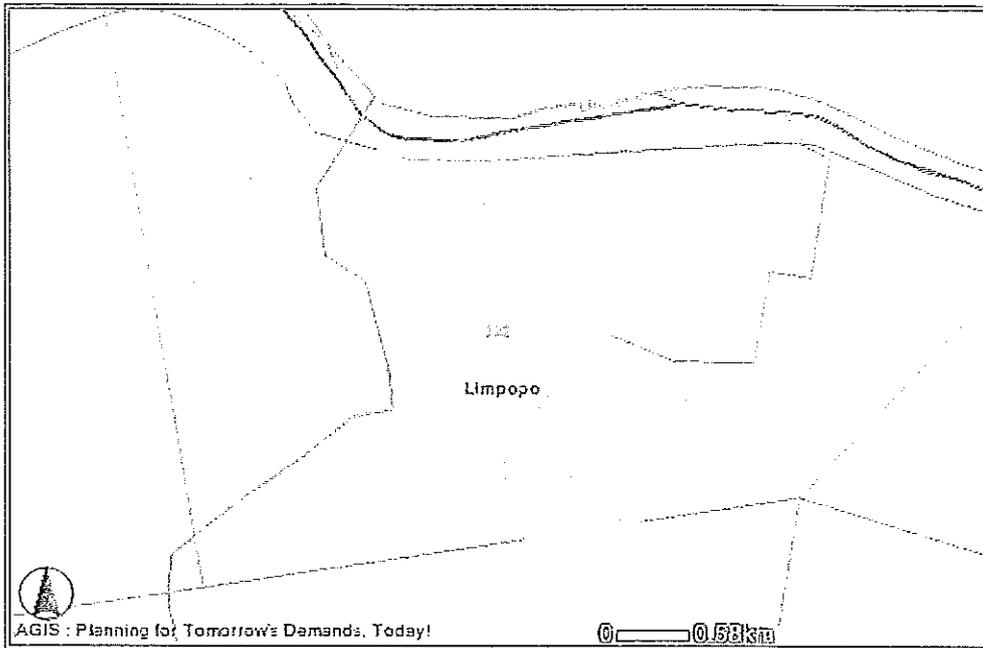
U.S.

DISCLAIMER:
This certificate is :-
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2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.

Farm Location



Farm Location





DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27019556

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

Mr WP ESTERHUYSE
4603075006087
POSBUS 87
MESSINA
0900

To use water on the following property :-

OVERVLAKTE MS 125 GED 5
T2400/2000

For the water use(s) of :-

Section 21(a) Taking water from a water resource.
Section 21(b) Storing water.

(See attached Annexure)


Regional Director


Date stamp of issuing office

Date _____ / _____ / _____
Northern Province Region

DISCLAIMER:
This certificate is :-
1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-05-25

Water Use No: 1

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 3026200.00 cubic metres

Date registered: 2001-05-25

Water Use No: 3

DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Storing water in terms of Section 21(b) of the National Water Act

Storing water not containing waste

Total volume: 24500.00 cubic metres in 3 dams

Water course(s): ONBEKEND

Date registered: 2001-05-25

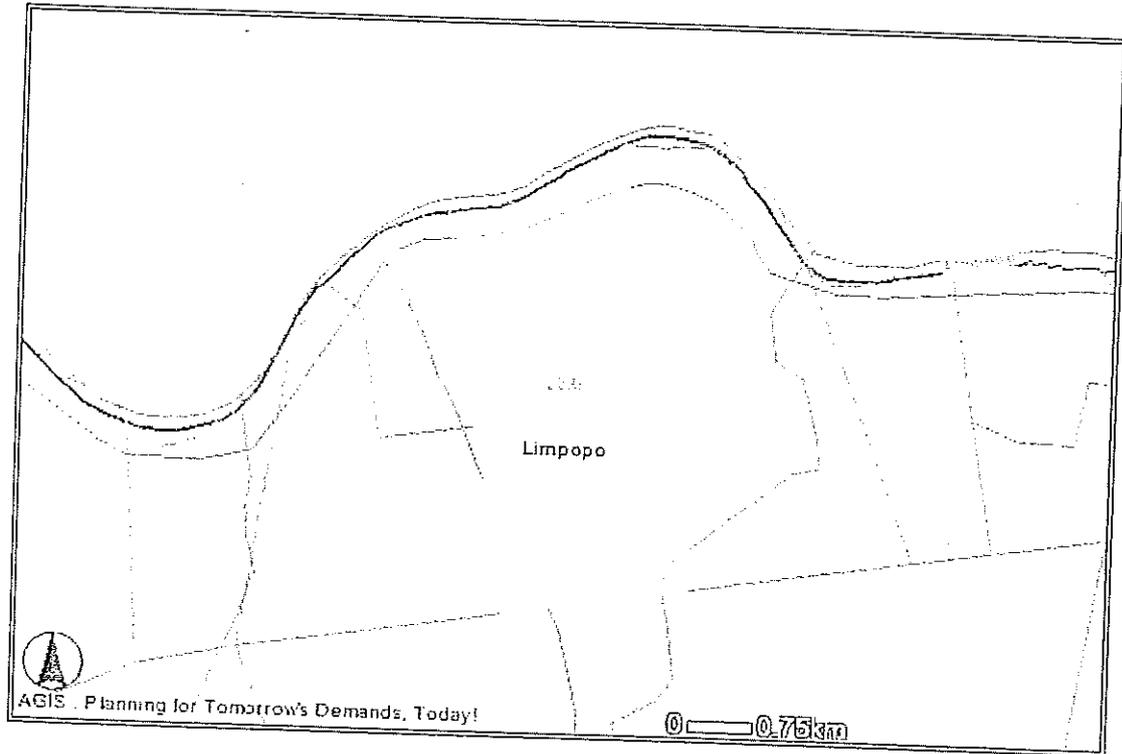
Water Use No: 2

DISCLAIMER:

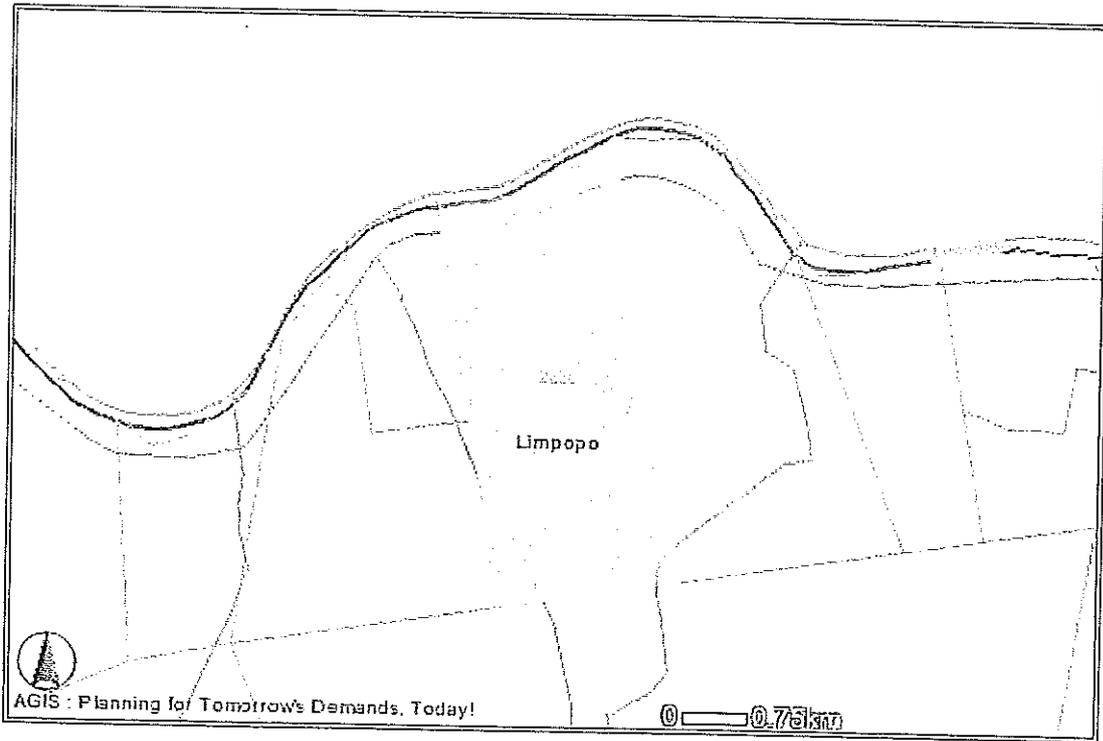
This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.

Farm Location



Farm Location



PART 2 – SECTION 21(a)

1. BH-001
2. BH-002
3. BH-003
4. BH-004
5. BH-005
6. BH-006
7. BH-007
8. BH-008

ASSOCIATED FORMS:

1. DW784

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative

Designation of signatory

(011) 785 4518

Contact number, during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? Yes
(Mark only one box with an X) No
- 2.2 If yes, mark with an X the Succession / Transfer Type Full Temporary Transfer Partial Temporary Transfer
 Permanent Transfer Succession in Title
- 2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource LIMPOPO ALLUVIAL AQUIFER
- 3.2 Name or reference number of abstraction point (if any) BH-001
- 3.3 Type of water source (mark only one with X)
 River / stream Spring / Eye Borehole Dam Estuary
 Wetland Lake GWS (scheme) Boreholes And Windmills On Government Land
- If water source is government water scheme, give the name:
- 3.4 Geographic location of the abstraction point
- Latitude S 22° 07' 58.9" or S ° or S ° ' "
- Longitude E 29° 38' 29.5" or E ° or E ° ' "
- Datum Type: Cape (Modified Clarke 1880) WGS-84
- 3.5 Reliability of water resource (mark only one with an X)
 Water always available Dry during certain seasons Frequently Dry
- 3.6 Quaternary Drainage Region A71L

4. DESCRIPTION OF WATER USE

- 4.1 Select only one WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use
 Date of first use or proposed first use (ccyymmdd) End date (if applicable) (ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)
***WU /WSP: Transmission Loss**
 (taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)			
a)	<input type="text" value="20100101"/>	<input type="text" value="840"/>	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>
b)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>
c)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>

4.4 Estimated water abstraction pattern: in total cubic meters or % per month

Jan	<input type="text" value="25,550"/>	Apr	<input type="text" value="25,550"/>	Jul	<input type="text" value="25,550"/>	Oct	<input type="text" value="25,550"/>
Feb	<input type="text" value="25,550"/>	May	<input type="text" value="25,550"/>	Aug	<input type="text" value="25,550"/>	Nov	<input type="text" value="25,550"/>
Mar	<input type="text" value="25,550"/>	Jun	<input type="text" value="25,550"/>	Sep	<input type="text" value="25,550"/>	Dec	<input type="text" value="25,550"/>

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)
 Pump * Canal Gravity or outlet pipe Other (specify) **
 * Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.
 ** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider? WUA WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit number	Date (ccyymmdd)
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>

5.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation

Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)

Should this WU application be considered for RPF subsidy?

Yes No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	From:	To:
Overulabte	T 44946/2009	MS	125	3+4	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
Overulabte	T 22619/2009	MS	125	5	Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					

8.6 Late Registration Penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

Waive penalty

File number

Water Use Register Number

Received by:

Surname Initials

Position / Rank

Signature

Captured on NRWU database (ccymmdd)

Capured by: Surname Initials

Signature

Date stamp of receiving office

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

a) Electric
 b) Diesel
 c) Petrol
 d) Tractor
 e) Wind
 f) Other (specify) _____

4.2 Model FRANKLIN 2 POLE 400V AC 15 kW

4.3 Pulley diameter mm

4.4 Speed 2900 rpm

4.5 Coupling:

a) Type (mark one with X)

V-belt
 Flat belt
 Gearbox
 Direct
 Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio :

4.6 Power rating 15 kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge			15	litres / second
5.2 Suction height	3	3	3	metres
5.3 Static height	21	21	21	metres
5.4 Working height			0	metres
5.5 Friction height			19	metres
5.6 Other losses			0	metres
5.7 Total head			40	metres
5.8 Efficiency			60	%
5.9 Power absorbed			11.25	kilowatts
5.10 Ammeter reading				amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number BH-001

b) Geographic location of the borehole, if different from pump

S ° ' " or S ° ' " or S ° ' " Cape datum Clarke
 E 0 ° ' " or E 0 ° ' " WGS-84 datum

6.2 Yield of borehole litres / second

6.3 Depth of borehole metres

6.4 Previous authorisation or licensing reference

7. ESKOM TRANSFORMER (where applicable)

7.1 a) ESKOM reference number

b) Geographic location of the transformer, if different from pump

<input type="text"/> S <input type="text"/> ° <input type="text"/> ' <input type="text"/> . <input type="text"/> "	or	<input type="text"/> S <input type="text"/> ° <input type="text"/> ' <input type="text"/> . <input type="text"/> "	or	<input type="text"/> S <input type="text"/> ° <input type="text"/> ' <input type="text"/> . <input type="text"/> "	Cape datum Clarke	<input type="checkbox"/>
<input type="text"/> E 0 <input type="text"/> ° <input type="text"/> ' <input type="text"/> . <input type="text"/> "	or	<input type="text"/> E 0 <input type="text"/> ° <input type="text"/> ' <input type="text"/> . <input type="text"/> "	or	<input type="text"/> E 0 <input type="text"/> ° <input type="text"/> ' <input type="text"/> . <input type="text"/> "	WGS-84 datum	<input type="checkbox"/>

7.2 Power rating of the transformer kVA

FOR OFFICIAL USE ONLY

File number

Water use licence or registration number

Water Management Area

Received by:

Surname	Initials
<input type="text"/>	<input type="text"/>

Rank

Signature

Captured by:

Initials

Date stamp of receiving office



water affairs

Department: Water Affairs REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(a) of the National Water Act

Part 2

TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

Yes No (X)

Registration Number: [grid]

Water Use Number: [grid]

Licence Related WU

RLA Reference [grid]

NRWU Licence Number [grid]

RLA Business Unit [grid]

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- Individual, Company, National Department, Provincial Department, Water Services Provider, Water User Association

1.3 If the applicant is an individual

1.3.1 Title, Surname, Initials [grid]

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number [grid]

Passport Expiry Date (ccyymmdd) [grid]

Passport Country Of Issue [grid]

For office use only

Allocated Reg. No. [grid]

WU No. [grid]

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Baldwin Khosa

Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? Yes
(Mark only one box with an X) No
- 2.2 If yes, mark with an X the Succession / Transfer Type Full Temporary Transfer Partial Temporary Transfer
 Permanent Transfer Succession in Title
- 2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource

L	I	M	P	O	P	O		A	L	L	I	A	L	A	Q	U	I	F	E	R
---	---	---	---	---	---	---	--	---	---	---	---	---	---	---	---	---	---	---	---	---
- 3.2 Name or reference number of abstraction point (if any)

B	H	-	0	0	2
---	---	---	---	---	---
- 3.3 Type of water source (mark only one with X) River / stream Spring / Eye Borehole Dam Estuary
 Wetland Lake GWS (scheme) Boreholes And Windmills On Government Land
- If water source is government water scheme, give the name:

--
- 3.4 Geographic location of the abstraction point
- Latitude S

2	2
---	---

 °

0	7
---	---

 '

5	9	.	4
---	---	---	---

 " or S

--	--	--	--	--	--	--	--

 ° or S

--	--	--	--	--	--	--	--

 °
- Longitude E

2	9
---	---

 °

3	8
---	---

 '

2	4	.	9
---	---	---	---

 " or E

--	--	--	--	--	--	--	--

 ° or E

--	--	--	--	--	--	--	--

 °
- Datum Type: Cape (Modified Clarke 1880) WGS-84
- 3.5 Reliability of water resource (mark only one with an X) Water always available Dry during certain seasons Frequently Dry
- 3.6 Quaternary Drainage Region

A	7	I	L
---	---	---	---

4. DESCRIPTION OF WATER USE

- 4.1 Select only one WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use
 Date of first use or proposed first use (ccyymmdd) End date (if applicable) (ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)
***WU /WSP: Transmission Loss**
 (taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)			
a)	<input type="text" value="20100101"/>	<input type="text" value="840"/>	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>
b)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>
c)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>

4.4 Estimated water abstraction pattern: in total cubic meters or % per month

Jan	<input type="text" value="25,500"/>	Apr	<input type="text" value="25,500"/>	Jul	<input type="text" value="25,500"/>	Oct	<input type="text" value="25,500"/>
Feb	<input type="text" value="25,500"/>	May	<input type="text" value="25,500"/>	Aug	<input type="text" value="25,500"/>	Nov	<input type="text" value="25,500"/>
Mar	<input type="text" value="25,500"/>	Jun	<input type="text" value="25,500"/>	Sep	<input type="text" value="25,500"/>	Dec	<input type="text" value="25,500"/>

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)
 Pump * Canal Gravity or outlet pipe Other (specify) **
 * Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.
 ** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider? WUA WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

5.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation
 Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)
 Should this WU application be considered for RPF subsidy? Yes No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property			Unsurveyed property			Property Relationship Date			
	Title Deed Number	Surveyor-General Cadastral Code		Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Ovarulakte	T44946/2009	MS								
	Property Number		125							
	Portion of property		3+U							
Ovarulakte	T22619/2009	MS								
	Property Number		125							
	Portion of property		S							
	Property Number									
	Portion of property									

8.6 Late Registration Penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

- R300.00 OR
- 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

Waive penalty

File number

Water Use Register Number

Received by:

Surname Initials

Position / Rank

Signature

Captured on NRWU database (ccyymmdd)

Captured by: Surname Initials

Signature

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
 TAKING WATER FROM A WATER RESOURCE
 PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION	
1.1 Pump number (if more than one, enter a sequence number starting from 001)	002
1.2 Installation date	Y Y Y Y M M D D
1.3 Geographic location of the pump (use one format only)	
<input type="checkbox"/> S 22° 07' 59.4" or <input type="checkbox"/> S or <input type="checkbox"/> S Cape datum Clarke <input type="checkbox"/> <input type="checkbox"/> E 029° 38' 24.9" or <input type="checkbox"/> E 0 or <input type="checkbox"/> E 0 WGS-84 datum <input checked="" type="checkbox"/>	
2. PUMPING HOURS	
2.1 Maximum pumping hours per week	068 h
2.2 Total pumping hours per year	3538 h
3. PUMP DATA	
3.1 Pump type (mark one with X)	
<input type="checkbox"/> a) Centrifugal <input type="checkbox"/> b) Positive displacement <input checked="" type="checkbox"/> c) Turbine <input type="checkbox"/> d) Axial flow <input type="checkbox"/> e) Other (specify) _____	
3.2 Pump model	SUPER D T90/S-110
3.3 Pulley diameter	_____ mm
3.4 Speed	2900 rpm
3.5 Impeller size (only for a centrifugal pump)	_____ mm
3.6 Suction hose	
3.6.1 Hose material	_____
3.6.2 Hose diameter	_____ mm
3.6.3 Hose length	_____ m
3.7 Type of flow meter (mark one with X)	
<input checked="" type="checkbox"/> a) Inline <input type="checkbox"/> b) Bypass <input type="checkbox"/> c) Doppler effect <input type="checkbox"/> d) None <input type="checkbox"/> e) Other (specify below) _____	
3.8 Pressure gauge reading	At inlet = _____ 3 m At outlet = _____ 4.5 m

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

a) Electric
 b) Diesel
 c) Petrol
 d) Tractor
 e) Wind
 f) Other (specify) _____

4.2 Model FRANKLIN 2 POLE ACOVAC 15 kW

4.3 Pulley diameter mm

4.4 Speed 2900 rpm

4.5 Coupling:

a) Type (mark one with X)

V-belt
 Flat belt
 Gearbox
 Direct
 Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio :

4.6 Power rating 15 kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	 	 	15	litres / second
5.2 Suction height	 	 	3	metres
5.3 Static height	 	 	21	metres
5.4 Working height	 	 	0	metres
5.5 Friction height	 	 	19	metres
5.6 Other losses	 	 	0	metres
5.7 Total head	 	 	40	metres
5.8 Efficiency	 	 	60	%
5.9 Power absorbed	 	 	11.25	kilowatts
5.10 Ammeter reading	 	 	 	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number BH-002

b) Geographic location of the borehole, if different from pump

S ° ' or S ° ' Cape datum Clarke
 E 0° ' or E 0° ' WGS-84 datum

6.2 Yield of borehole litres / second

6.3 Depth of borehole metres

6.4 Previous authorisation or licensing reference



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing
Part 2

Section 21(a) of the National Water Act
TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry? Yes No

Registration Number:

Water Use Number:

Licence Related WU

RLA Reference:

NRWU Licence Number:

RLA Business Unit:

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

Individual (complete 1.3) Provincial Department (complete 1.6)

Company, business, partnership or community (complete 1.4) Water Services Provider (complete 1.7)

National Department (complete 1.5) Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

For office use only

Allocated Reg. No. WU No.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

BSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I am BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Baldwin Khosa

Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

4.2 Period of water use
 Date of first use or proposed first use (ccyymmdd) End date (if applicable) (ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)
 *WU /WSP: Transmission Loss (taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)			
a)	<input type="text" value="20100101"/>	<input type="text" value="840"/>	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>
b)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>
c)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>

4.4 Estimated water abstraction pattern: in total cubic meters or % per month

Jan	<input type="text" value="25,500"/>	Apr	<input type="text" value="25,500"/>	Jul	<input type="text" value="25,500"/>	Oct	<input type="text" value="25,500"/>
Feb	<input type="text" value="25,500"/>	May	<input type="text" value="25,500"/>	Aug	<input type="text" value="25,500"/>	Nov	<input type="text" value="25,500"/>
Mar	<input type="text" value="25,500"/>	Jun	<input type="text" value="25,500"/>	Sep	<input type="text" value="25,500"/>	Dec	<input type="text" value="25,500"/>

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)
 Pump * Canal Gravity or outlet pipe Other (specify) **
 * Also complete supplementary form DW784pmp ('Taking water from a water resource -- pump technical data'), if 'pump' was selected.
 ** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider? WUA WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

5.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation
 Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)
 Should this WU application be considered for RPF subsidy? Yes No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	From:	To:
Overstate	T44946/2009		MS		Surname of the Leader of Village, Community or Tribal Authority					
			12S		Initial of the Leader of Village, Community or Tribal Authority					
			3+4		Local Authority (if applicable)					
					Magisterial District (if applicable)					
Overstate	T22619/2009		MS		Tribal Authority/Council (if applicable)					
			12S		Surname of the Leader of Village, Community or Tribal Authority					
			S		Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					

8.6 Late Registration Penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

Waive penalty

File number

Water Use Register Number

Received by:

Surname Initials

Position / Rank

Signature

Captured on NRWU database (ccymmdd)

Captured by: Surname Initials

Signature

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
TAKING WATER FROM A WATER RESOURCE
PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION																									
1.1 Pump number (if more than one, enter a sequence number starting from 001)	003																								
1.2 Installation date	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>Y</td><td>Y</td><td>Y</td><td>Y</td><td>M</td><td>M</td><td>D</td><td>D</td> </tr> </table>	Y	Y	Y	Y	M	M	D	D																
Y	Y	Y	Y	M	M	D	D																		
1.3 Geographic location of the pump (use one format only)																									
<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>S</td><td>22</td><td>07</td><td>59.8</td> </tr> <tr> <td>E</td><td>029</td><td>38</td><td>20.8</td> </tr> </table> or <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>S</td><td></td><td></td><td></td> </tr> <tr> <td>E</td><td>0</td><td></td><td></td> </tr> </table> or <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>S</td><td></td><td></td><td></td> </tr> <tr> <td>E</td><td>0</td><td></td><td></td> </tr> </table>	S	22	07	59.8	E	029	38	20.8	S				E	0			S				E	0			Cape datum Clarke <input type="checkbox"/> WGS-84 datum <input checked="" type="checkbox"/>
S	22	07	59.8																						
E	029	38	20.8																						
S																									
E	0																								
S																									
E	0																								
2. PUMPING HOURS																									
2.1 Maximum pumping hours per week	068 h																								
2.2 Total pumping hours per year	3538 h																								
3. PUMP DATA																									
3.1 Pump type (mark one with X)																									
<input type="checkbox"/> a) Centrifugal <input type="checkbox"/> b) Positive displacement <input checked="" type="checkbox"/> c) Turbine <input type="checkbox"/> d) Axial flow <input type="checkbox"/> e) Other (specify) _____																									
3.2 Pump model	SUPER D T90/S-110																								
3.3 Pulley diameter	_____ mm																								
3.4 Speed	2900 rpm																								
3.5 Impeller size (only for a centrifugal pump)	_____ mm																								
3.6 Suction hose																									
3.6.1 Hose material	_____																								
3.6.2 Hose diameter	_____ mm																								
3.6.3 Hose length	_____ m																								
3.7 Type of flow meter (mark one with X)																									
<input checked="" type="checkbox"/> a) Inline <input type="checkbox"/> b) Bypass <input type="checkbox"/> c) Doppler effect <input type="checkbox"/> d) None <input type="checkbox"/> e) Other (specify below) _____																									
3.8 Pressure gauge reading	At inlet = _____ 3 m At outlet = _____ 4.5 m																								

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)
 a) Electric b) Diesel c) Petrol d) Tractor e) Wind
 f) Other (specify) _____

4.2 Model **FRANKLIN 2POLE 400VAC 15kW**

4.3 Pulley diameter _____ mm

4.4 Speed **2900** rpm

4.5 Coupling:
 a) Type (mark one with X)
 V-belt Flat belt Gearbox Direct Other (specify below) _____
 b) For gearbox coupling or direct coupling, enter the ratio _____ : _____

4.6 Power rating **15** kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	_____	_____	15	litres / second
5.2 Suction height	_____	_____	3	metres
5.3 Static height	_____	_____	21	metres
5.4 Working height	_____	_____	0	metres
5.5 Friction height	_____	_____	19	metres
5.6 Other losses	_____	_____	0	metres
5.7 Total head	_____	_____	40	metres
5.8 Efficiency	_____	_____	60	%
5.9 Power absorbed	_____	_____	11.25	kilowatts
5.10 Ammeter reading	_____	_____	_____	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number **BH-003**

b) Geographic location of the borehole, if different from pump
 S _____° _____' or S _____° _____' or S _____° _____' Cape datum Clarke
 E 0 _____° _____' or E 0 _____° _____' or E 0 _____° _____' WGS-84 datum

6.2 Yield of borehole _____ litres / second

6.3 Depth of borehole _____ metres

6.4 Previous authorisation or licensing reference _____

7. ESKOM TRANSFORMER (where applicable)

7.1 a) ESKOM reference number

b) Geographic location of the transformer, if different from pump

S or S or S Cape datum Clarke

E 0 E 0 E 0 WGS-84 datum

7.2 Power rating of the transformer kVA

FOR OFFICIAL USE ONLY

File number

Water use licence or registration number

Water Management Area

Received by:

Surname Initials

Rank

Signature

Captured by:

Initials

Date stamp of receiving office



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing
Part 2

Section 21(a) of the National Water Act
TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

Yes Registration Number: No (checked)

Registration Number grid

Water Use Number:

Water Use Number grid

Licence Related WU

RLA Reference

RLA Reference grid

NRWU Licence Number

NRWU Licence Number grid

RLA Business Unit

RLA Business Unit grid

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- Individual (complete 1.3)
Company, business, partnership or community (complete 1.4) (checked)
National Department (complete 1.5)
Provincial Department (complete 1.6)
Water Services Provider (complete 1.7)
Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title, Surname, Initials fields

1.3.2 South African ID (If holder of South African Id) alternatively Passport Number:

ID Number or Passport Number grid

Passport Expiry Date (ccyymmdd) grid

Passport Country Of Issue field

For office use only

Allocated Reg. No. grid

WU No. grid

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Baldwin Khosa

Signature

Company Representative

Designation of signatory

Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? Yes
(Mark only one box with an X) No
- 2.2 If yes, mark with an X the Succession / Transfer Type Full Temporary Transfer Partial Temporary Transfer
 Permanent Transfer Succession in Title
- 2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource

LIMPOPO ALLUVIAL AQUIFER

- 3.2 Name or reference number of abstraction point (if any)

BH-004

- 3.3 Type of water source (mark only one with X) River / stream Spring / Eye Borehole Dam Estuary
 Wetland Lake GWS (scheme) Boreholes And Windmills On Government Land
If water source is government water scheme, give the name:

--
- 3.4 Geographic location of the abstraction point
Latitude S

2	2
---	---

 °

0	8
---	---

 '

0	0	.	5
---	---	---	---

 " or S

--	--	--	--	--	--	--	--

 ° or S

--	--	--	--	--	--	--	--

 °
Longitude E

2	9
---	---

 °

3	8
---	---

 '

1	9	.	2
---	---	---	---

 " or E

--	--	--	--	--	--	--	--

 ° or E

--	--	--	--	--	--	--	--

 °
Datum Type: Cape (Modified Clarke 1880) WGS-84
- 3.5 Reliability of water resource (mark only one with an X) Water always available Dry during certain seasons Frequently Dry
- 3.6 Quaternary Drainage Region

A	7	I	L
---	---	---	---

4. DESCRIPTION OF WATER USE

- 4.1 Select only one WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use
 Date of first use or proposed first use (ccyymmdd) End date (if applicable) (ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)
*WU /WSP: Transmission Loss
(taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)							
a)	<input type="text" value="20100101"/>	<input type="text" value="840"/>	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
b)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
c)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%

4.4 Estimated water abstraction pattern: in total cubic meters or % per month

Jan	<input type="text" value="25,500"/>	Apr	<input type="text" value="25,500"/>	Jul	<input type="text" value="25,500"/>	Oct	<input type="text" value="25,500"/>
Feb	<input type="text" value="25,500"/>	May	<input type="text" value="25,500"/>	Aug	<input type="text" value="25,500"/>	Nov	<input type="text" value="25,500"/>
Mar	<input type="text" value="25,500"/>	Jun	<input type="text" value="25,500"/>	Sep	<input type="text" value="25,500"/>	Dec	<input type="text" value="25,500"/>

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)
 Pump * Canal Gravity or outlet pipe Other (specify) **
 * Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.
 ** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider? WUA WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

5.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	[E.g. National Water Act (Act No. 36 of 1998)]		Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation
Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)

Should this WU application be considered for RPF subsidy? Yes No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Overlakte	T44946/2009	MS	125	3+4							
Overlakte	T22619/2009	MS	125	5							

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)
 a) Electric b) Diesel c) Petrol d) Tractor e) Wind
 f) Other (specify) _____

4.2 Model FRANKLIN 2POLE 400VAC 15kW

4.3 Pulley diameter mm

4.4 Speed rpm 2900

4.5 Coupling:
 a) Type (mark one with X)
 V-belt Flat belt Gearbox Direct Other (specify below) _____
 b) For gearbox coupling or direct coupling, enter the ratio :

4.6 Power rating kW 15

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <u>15</u>	litres / second
5.2 Suction height	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <u>3</u>	metres
5.3 Static height	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <u>21</u>	metres
5.4 Working height	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <u>0</u>	metres
5.5 Friction height	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <u>19</u>	metres
5.6 Other losses	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <u>0</u>	metres
5.7 Total head	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <u>40</u>	metres
5.8 Efficiency	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <u>60</u>	%
5.9 Power absorbed	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <u>11.25</u>	kilowatts
5.10 Ammeter reading	<input type="text"/>	<input type="text"/>	<input type="text"/>	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number BH-004

b) Geographic location of the borehole, if different from pump
 S or S or S Cape datum Clarke
 E 0 or E 0 WGS-84 datum

6.2 Yield of borehole litres / second

6.3 Depth of borehole metres

6.4 Previous authorisation or licensing reference _____



water affairs

Department: Water Affairs REPUBLIC OF SOUTH AFRICA

Registration / Licensing Part 2

Section 21(a) of the National Water Act TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

Yes Registration Number: No (checked)

Registration Number grid

Water Use Number:

Water Use Number grid

Licence Related WU

RLA Reference

RLA Reference grid

NRWU Licence Number

NRWU Licence Number grid

RLA Business Unit

RLA Business Unit grid

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- Individual, Company, National Department, Provincial Department, Water Services Provider, Water User Association

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccymmdd)

Passport Country Of Issue

For office use only

Allocated Reg. No.

WU No.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

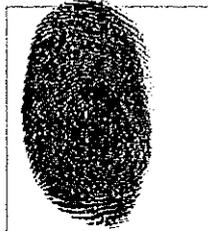
Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2005/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a Succession or a Transfer related Water Use? Yes No
(Mark only one box with an X)

2.2 If yes, mark with an X the Succession / Transfer Type Full Temporary Transfer Partial Temporary Transfer
 Permanent Transfer Succession in Title

2.3 Source Register Number 27019556 WU Number [][][][]
Source Register Number 27006702 WU Number [][][][]
Source Register Number 27006711 WU Number [][][][]

3. WATER RESOURCE INFORMATION

3.1 Name of water resource LIMPOPO ALLUVIAL AQUIFER

3.2 Name or reference number of abstraction point (if any) BH-005

3.3 Type of water source (mark only one with X) River / stream Spring / Eye Borehole Dam Estuary
 Wetland Lake GWS (scheme) Boreholes And Windmills On Government Land

If water source is government water scheme, give the name:

3.4 Geographic location of the abstraction point

Latitude S 22° 07' 58.3" or S [][][]° [][][]' [][][][]" or S [][][]° [][][]' [][][][]"

Longitude E 29° 38' 27.5" or E [][][]° [][][]' [][][][]" or E [][][]° [][][]' [][][][]"

Datum Type: Cape (Modified Clarke 1880) WGS-84

3.5 Reliability of water resource (mark only one with an X) Water always available Dry during certain seasons Frequently Dry

3.6 Quaternary Drainage Region A71L

4. DESCRIPTION OF WATER USE

4.1 Select only one WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)

- Agriculture: Aquaculture Power Generation (also complete DW788)
- Agriculture: Irrigation (also complete form DW787) Recreation
- Agriculture: Watering Livestock Schedule 1
- Industrial (also complete form DW788) Urban (excl. Domestic &/or Industrial)
- Mining (also complete form DW788) Water Supply Service (also complete form DW789)

4.2 Period of water use
 Date of first use or proposed first use (ccyymmdd) End date (if applicable) (ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)
***WU /WSP: Transmission Loss**
 (taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)					
a)	<input type="text" value="20100101"/>	<input type="text" value="840"/>	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>
b)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>
c)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>

4.4 Estimated water abstraction pattern: in total cubic meters or % per month

Jan	<input type="text" value="25,500"/>	Apr	<input type="text" value="25,500"/>	Jul	<input type="text" value="25,500"/>	Oct	<input type="text" value="25,500"/>
Feb	<input type="text" value="25,500"/>	May	<input type="text" value="25,500"/>	Aug	<input type="text" value="25,500"/>	Nov	<input type="text" value="25,500"/>
Mar	<input type="text" value="25,500"/>	Jun	<input type="text" value="25,500"/>	Sep	<input type="text" value="25,500"/>	Dec	<input type="text" value="25,500"/>

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)
 Pump * Canal Gravity or outlet pipe Other (specify) **
 * Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.
 ** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider? WUA WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

5.2 If water use takes place in terms of the General Authorisation, mark with an X

*if yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation
 Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)
 Should this WU application be considered for RPF subsidy? Yes No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date						
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Overlakte	T44946/2009	MS	125	B+4					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
	T22619/2009	MS	125	S					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
									Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
									Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
Overlakte									Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
									Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
									Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
									Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
 TAKING WATER FROM A WATER RESOURCE
 PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION	
1.1 Pump number (if more than one, enter a sequence number starting from 001)	005
1.2 Installation date	Y Y Y Y M M D D
1.3 Geographic location of the pump (use one format only)	
S 22° 07' 58.3" or S ° or S ° E 029° 38' 27.5" or E 0 ° or E 0 °	Cape datum Clarke <input type="checkbox"/> WGS-84 datum <input checked="" type="checkbox"/>
2. PUMPING HOURS	
2.1 Maximum pumping hours per week	068 h
2.2 Total pumping hours per year	3538 h
3. PUMP DATA	
3.1 Pump type (mark one with X)	
<input type="checkbox"/> a) Centrifugal <input type="checkbox"/> b) Positive displacement <input checked="" type="checkbox"/> c) Turbine <input type="checkbox"/> d) Axial flow <input type="checkbox"/> e) Other (specify) _____	
3.2 Pump model	SUPER D T90/S-110
3.3 Pulley diameter	_____ mm
3.4 Speed	2900 rpm
3.5 Impeller size (only for a centrifugal pump)	_____ mm
3.6 Suction hose	
3.6.1 Hose material	_____
3.6.2 Hose diameter	_____ mm
3.6.3 Hose length	_____ m
3.7 Type of flow meter (mark one with X)	
<input checked="" type="checkbox"/> a) Inline <input type="checkbox"/> b) Bypass <input type="checkbox"/> c) Doppler effect <input type="checkbox"/> d) None <input type="checkbox"/> e) Other (specify below) _____	
3.8 Pressure gauge reading	At inlet = _____ 3 _____ m At outlet = _____ 4 _____ 5 _____ m

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

a) Electric
 b) Diesel
 c) Petrol
 d) Tractor
 e) Wind
 f) Other (specify) _____

4.2 Model FRANKLIN 2POLE 600VAC 15LW

4.3 Pulley diameter mm

4.4 Speed 2900 rpm

4.5 Coupling:

a) Type (mark one with X)

V-belt
 Flat belt
 Gearbox
 Direct
 Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio :

4.6 Power rating 15 kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	 	 	15	litres / second
5.2 Suction height	 	 	3	metres
5.3 Static height	 	 	21	metres
5.4 Working height	 	 	0	metres
5.5 Friction height	 	 	19	metres
5.6 Other losses	 	 	0	metres
5.7 Total head	 	 	40	metres
5.8 Efficiency	 	 	60	%
5.9 Power absorbed	 	 	11.25	kilowatts
5.10 Ammeter reading	 	 	 	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number BH-005

b) Geographic location of the borehole, if different from pump

S ° ' " or S ° ' or S ° ' Cape datum Clarke
 E 0 ' " or E 0 ' " WGS-84 datum

6.2 Yield of borehole litres / second

6.3 Depth of borehole metres

6.4 Previous authorisation or licensing reference

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? Yes
(Mark only one box with an X) No
- 2.2 If yes, mark with an X the Succession / Transfer Type Full Temporary Transfer Partial Temporary Transfer
 Permanent Transfer Succession in Title
- 2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource LIMPOPO ALLUVIAL AQUIFER
- 3.2 Name or reference number of abstraction point (if any) BH-006
- 3.3 Type of water source (mark only one with X)
 River / stream Spring / Eye Borehole Dam Estuary
 Wetland Lake GWS (scheme) Boreholes And Windmills On Government Land
- If water source is government water scheme, give the name:
- 3.4 Geographic location of the abstraction point
- Latitude S 22° 08' 00.5" or S ° ' " or S ° ' "
- Longitude E 29° 38' 17.4" or E ° ' " or E ° ' "
- Datum Type: Cape (Modified Clarke 1880) WGS-84
- 3.5 Reliability of water resource (mark only one with an X)
 Water always available Dry during certain seasons Frequently Dry
- 3.6 Quaternary Drainage Region A71L

4. DESCRIPTION OF WATER USE

- 4.1 Select only one WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use
 Date of first use or proposed first use (ccyymmdd) End date (if applicable) (ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)
***WU /WSP: Transmission Loss**
 (taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume	m ³	Time interval (mark only one with X)					
a)	<input type="text" value="20100101"/>	<input type="text" value="840"/>		<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>
b)	<input type="text"/>	<input type="text"/>		<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>
c)	<input type="text"/>	<input type="text"/>		<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>

4.4 Estimated water abstraction pattern: in total cubic meters or % per month

Jan	<input type="text" value="25,500"/>	Apr	<input type="text" value="25,500"/>	Jul	<input type="text" value="25,500"/>	Oct	<input type="text" value="25,500"/>
Feb	<input type="text" value="25,500"/>	May	<input type="text" value="25,500"/>	Aug	<input type="text" value="25,500"/>	Nov	<input type="text" value="25,500"/>
Mar	<input type="text" value="25,500"/>	Jun	<input type="text" value="25,500"/>	Sep	<input type="text" value="25,500"/>	Dec	<input type="text" value="25,500"/>

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)
 Pump * Canal Gravity or outlet pipe Other (specify) **
 * Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.
 ** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider? WUA WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

5.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	[E.g. National Water Act (Act No. 36 of 1998)]		Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation
Law /Regulation

6. **SUBSIDY DETAILS**

6.1 Resource Poor Farmer (RPF)
Should this WU application be considered for RPF subsidy? Yes No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	From:	To:
Ouarabakete	T44946/2009	MS	125	3+4	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
Ouarabakete	T22619/2009	MS	125		Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
 TAKING WATER FROM A WATER RESOURCE
 PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION

1.1 Pump number (if more than one, enter a sequence number starting from 001) 006

1.2 Installation date Y Y Y Y M M D D

1.3 Geographic location of the pump (use one format only)

S 22° 08' 00.5" or S or S Cape datum Clarke

E 029° 38' 17.4" or E 0 or E 0 WGS-84 datum

2. PUMPING HOURS

2.1 Maximum pumping hours per week 068 h

2.2 Total pumping hours per year 3538 h

3. PUMP DATA

3.1 Pump type (mark one with X)

a) Centrifugal b) Positive displacement c) Turbine d) Axial flow

e) Other (specify) _____

3.2 Pump model SUPER D T90/S-110

3.3 Pulley diameter _____ mm

3.4 Speed 2900 rpm

3.5 Impeller size (only for a centrifugal pump) _____ mm

3.6 Suction hose

3.6.1 Hose material _____

3.6.2 Hose diameter _____ mm

3.6.3 Hose length _____ m

3.7 Type of flow meter (mark one with X)

a) Inline b) Bypass c) Doppler effect d) None e) Other (specify below)

3.8 Pressure gauge reading At inlet = _____ 3 m At outlet = _____ 4.5 m

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

a) Electric
 b) Diesel
 c) Petrol
 d) Tractor
 e) Wind
 f) Other (specify) _____

4.2 Model

4.3 Pulley diameter mm

4.4 Speed rpm

4.5 Coupling:

a) Type (mark one with X)

V-belt
 Flat belt
 Gearbox
 Direct
 Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio :

4.6 Power rating kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="15"/>	litres / second
5.2 Suction height	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="3"/>	metres
5.3 Static height	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="21"/>	metres
5.4 Working height	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="0"/>	metres
5.5 Friction height	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="19"/>	metres
5.6 Other losses	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="0"/>	metres
5.7 Total head	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="40"/>	metres
5.8 Efficiency	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="60"/>	%
5.9 Power absorbed	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="11.25"/>	kilowatts
5.10 Ammeter reading	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number

b) Geographic location of the borehole, if different from pump

S ° ', ° ', or S ° ', or S ° ', Cape datum Clarke
 E 0 ° ', E 0 ° ', or E 0 ° ', WGS-84 datum

6.2 Yield of borehole litres / second

6.3 Depth of borehole metres

6.4 Previous authorisation or licensing reference

7. ESKOM TRANSFORMER (where applicable)

7.1 a) ESKOM reference number

b) Geographic location of the transformer, if different from pump

S ° ', ', ', ' or S ° ', ', ', '

E 0 ° ', ', ', '

or S ° ', ', ', ' or S ° ', ', ', '

Cape datum Clarke

WGS-84 datum

7.2 Power rating of the transformer

kVA

FOR OFFICIAL USE ONLY

File number

Water use licence or registration number

Water Management Area

Received by:

Surname

Initials

Rank

Signature

Captured by:

Initials

Date stamp of receiving office



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing
Part 2

Section 21(a) of the National Water Act
TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

Yes No (checked)

Registration Number:

Grid for Registration Number

Water Use Number:

Grid for Water Use Number

Licence Related WU

RLA Reference

Grid for RLA Reference

NRWU Licence Number

Grid for NRWU Licence Number

RLA Business Unit

Grid for RLA Business Unit

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- Individual (complete 1.3)
Company, business, partnership or community (complete 1.4) (checked)
National Department (complete 1.5)
Provincial Department (complete 1.6)
Water Services Provider (complete 1.7)
Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

For office use only

Allocated Reg. No.

WU No.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative

Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation
 Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)
 Should this WU application be considered for RPF subsidy? Yes No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	From:	To:
Overlakte	T44946/2009	MS	125	3+4	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
Overlakte	T22619/2009	MS	125	S	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

- a) Electric
 b) Diesel
 c) Petrol
 d) Tractor
 e) Wind
 f) Other (specify) _____

4.2 Model FRANKLIN 2 POLE 400V AC 15LW

4.3 Pulley diameter mm

4.4 Speed 2900 rpm

4.5 Coupling:

a) Type (mark one with X)

- V-belt
 Flat belt
 Gearbox
 Direct
 Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio 1 : 1

4.6 Power rating 15 kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	<input type="text"/>	<input type="text"/>	<u>15</u>	litres / second
5.2 Suction height	<input type="text"/>	<input type="text"/>	<u>3</u>	metres
5.3 Static height	<input type="text"/>	<input type="text"/>	<u>21</u>	metres
5.4 Working height	<input type="text"/>	<input type="text"/>	<u>0</u>	metres
5.5 Friction height	<input type="text"/>	<input type="text"/>	<u>19</u>	metres
5.6 Other losses	<input type="text"/>	<input type="text"/>	<u>0</u>	metres
5.7 Total head	<input type="text"/>	<input type="text"/>	<u>40</u>	metres
5.8 Efficiency	<input type="text"/>	<input type="text"/>	<u>60</u>	%
5.9 Power absorbed	<input type="text"/>	<input type="text"/>	<u>11.25</u>	kilowatts
5.10 Ammeter reading	<input type="text"/>	<input type="text"/>	<input type="text"/>	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number BH-007

b) Geographic location of the borehole, if different from pump

- S ° ' " or S ° ' " or S ° ' " Cape datum Clarke
 E ° ' " or E ° ' " WGS-84 datum

6.2 Yield of borehole litres / second

6.3 Depth of borehole metres

6.4 Previous authorisation or licensing reference

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative
Designation of signatory

(011) 785 4512

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? Yes
(Mark only one box with an X) No
- 2.2 If yes, mark with an X the Succession / Transfer Type Full Temporary Transfer Partial Temporary Transfer
 Permanent Transfer Succession in Title
- 2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

 Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource LIMPOPO ALLUVIAL AQUIFER
- 3.2 Name or reference number of abstraction point (if any) BH-008
- 3.3 Type of water source (mark only one with X) River / stream Spring / Eye Borehole Dam Estuary
 Wetland Lake GWS (scheme) Boreholes And Windmills On Government Land
If water source is government water scheme, give the name: _____
- 3.4 Geographic location of the abstraction point
- Latitude S 22° 08' 01.0" or S _____ ° or S _____ °
- Longitude E 29° 38' 14.0" or E _____ ° or E _____ °
- Datum Type: Cape (Modified Clarke 1880) WGS-84
- 3.5 Reliability of water resource (mark only one with an X) Water always available Dry during certain seasons Frequently Dry
- 3.6 Quaternary Drainage Region A 7 1 L

4. DESCRIPTION OF WATER USE

- 4.1 Select only one WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use
 Date of first use or proposed first use (ccyymmdd) End date (if applicable) (ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)
***WU /WSP: Transmission Loss**
 (taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)					
a)	<input type="text" value="20100101"/>	<input type="text" value="840"/>	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>
b)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>
c)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>	<input type="text"/>	<input type="text"/>

4.4 Estimated water abstraction pattern: in total cubic meters or % per month

Jan	<input type="text" value="25,550"/>	Apr	<input type="text" value="25,550"/>	Jul	<input type="text" value="25,550"/>	Oct	<input type="text" value="25,550"/>
Feb	<input type="text" value="25,550"/>	May	<input type="text" value="25,550"/>	Aug	<input type="text" value="25,550"/>	Nov	<input type="text" value="25,550"/>
Mar	<input type="text" value="25,550"/>	Jun	<input type="text" value="25,550"/>	Sep	<input type="text" value="25,550"/>	Dec	<input type="text" value="25,550"/>

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)
 Pump * Canal Gravity or outlet pipe Other (specify) **

* Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.

** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider? WUA WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

5.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	[E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act	[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation
 Law /Regulation _____

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)
 Should this WU application be considered for RPF subsidy? Yes No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Ovar-slakte	T44946/2009	MS	12S	3+4							
Ovar-slakte	T22619/2009	MS	12S	S							



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
 TAKING WATER FROM A WATER RESOURCE
 PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION

1.1 Pump number (if more than one, enter a sequence number starting from 001) 008

1.2 Installation date Y Y Y Y M M D D

1.3 Geographic location of the pump (use one format only)

S 22° 08' 01.0" or S ° ° ° or S ° ° ° Cape datum Clarke

E 029° 38' 14.0" or E 0 ° ° ° WGS-84 datum

2. PUMPING HOURS

2.1 Maximum pumping hours per week 068 h

2.2 Total pumping hours per year 3538 h

3. PUMP DATA

3.1 Pump type (mark one with X)

a) Centrifugal b) Positive displacement c) Turbine d) Axial flow

e) Other (specify) _____

3.2 Pump model SUPER D T90/S-110

3.3 Pulley diameter _____ mm

3.4 Speed 2900 rpm

3.5 Impeller size (only for a centrifugal pump) _____ mm

3.6 Suction hose

3.6.1 Hose material _____

3.6.2 Hose diameter _____ mm

3.6.3 Hose length _____ m

3.7 Type of flow meter (mark one with X)

a) Inline b) Bypass c) Doppler effect d) None e) Other (specify below)

3.8 Pressure gauge reading At inlet = 3 m At outlet = 4.5 m

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

a) Electric
 b) Diesel
 c) Petrol
 d) Tractor
 e) Wind
 f) Other (specify) _____

4.2 Model FRANKLIN 2 POLE 400VAC 1SEW

4.3 Pulley diameter mm

4.4 Speed 2900 rpm

4.5 Coupling:

a) Type (mark one with X)

V-belt
 Flat belt
 Gearbox
 Direct
 Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio :

4.6 Power rating 15 kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	<input type="text"/>	<input type="text"/>	<input type="text"/> <u>15</u>	litres / second
5.2 Suction height	<input type="text"/>	<input type="text"/>	<input type="text"/> <u>3</u>	metres
5.3 Static height	<input type="text"/>	<input type="text"/>	<input type="text"/> <u>21</u>	metres
5.4 Working height	<input type="text"/>	<input type="text"/>	<input type="text"/> <u>0</u>	metres
5.5 Friction height	<input type="text"/>	<input type="text"/>	<input type="text"/> <u>19</u>	metres
5.6 Other losses	<input type="text"/>	<input type="text"/>	<input type="text"/> <u>0</u>	metres
5.7 Total head	<input type="text"/>	<input type="text"/>	<input type="text"/> <u>40</u>	metres
5.8 Efficiency	<input type="text"/>	<input type="text"/>	<input type="text"/> <u>60</u>	%
5.9 Power absorbed	<input type="text"/>	<input type="text"/>	<input type="text"/> <u>11.25</u>	kilowatts
5.10 Ammeter reading	<input type="text"/>	<input type="text"/>	<input type="text"/>	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number BH-008

b) Geographic location of the borehole, if different from pump

S or S or S Cape datum Clarke
 E 0 or E 0 WGS-84 datum

6.2 Yield of borehole litres / second

6.3 Depth of borehole metres

6.4 Previous authorisation or licensing reference

PART 2 – SECTION 21(b)

1. **RAW WATER DAM**
2. **PROCESS HOLDING TANKS**
3. **OPENCAST HOLDING TANK**

ASSOCIATED FORMS:

1. **DW790 (Raw water dam only)**
2. **DW793 (Not Applicable – outside definition of Dam Safety Classification)**

1.2 Applicant Type (mark only one block with X)

- Individual (complete 1.3)

 Provincial Department (complete 1.6)
 Company, business, partnership or community (complete 1.4)

 Water Services Provider (complete 1.7)
 National Department (complete 1.5)

 Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:**1.4.1** Name of company, business, partnership or community:
1.4.2 Business Enterprise Registration Number
1.4.3 Date Established (ccyymmdd)

Country Where Established

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Baldwin Khosa
 Signature
Company Representative
 Designation of signatory

Thumb print

(011) 785 4518
 Contact number during office hours
2009/11/05
 Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a Succession or a Transfer related Water Use? Yes
 (Mark only one box with an X) No

2.2 If yes, mark with an X the Succession / Transfer Type Full Temporary Transfer Partial Temporary Transfer
 Permanent Transfer Succession in Title

2.3 Source Register Number	<input type="text" value="27019556"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>

3. GENERAL DAM INFORMATION

3.1 Name of the dam RAW WATER DAM

3.2 If the water is to be stored in a watercourse, then enter the name of the watercourse

3.3 For off-stream storage, enter the name of the watercourse to which the water would naturally drain
LIMPOPO RIVER

3.4 Surname and initials or business name of designer or consultant UNKNOWN Initials

3.5 Surname and initials or business name of contractor

UNKNOWN

Initials

--	--	--	--

4. PURPOSE OF DAM

Identify the purpose that the dam is used for:

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Irrigation (DW787) | <input checked="" type="checkbox"/> Mining (DW788) |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industry | <input type="checkbox"/> Water Supply Service (DW789) |

5. DAM SIZE AND BASIN INFORMATION

5.1 Date of completion of the dam (ccyymmdd)

20010525

5.2 Size of dam

a) Maximum wall height **

2.80

metres

** "wall height" is the vertical difference between the lowest downstream ground elevation on the dam wall and the non-overspill crest level or the general top level of the dam wall

b) Crest length of wall ***

480.00

metres

*** The length of the crest includes the length of the spillway, where applicable.

c) Gross storage capacity

21

thousand cubic metres

d) Water surface area at full supply level

1.24

hectares

5.3 Water depth at full supply level

1.80

metres

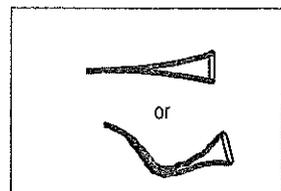
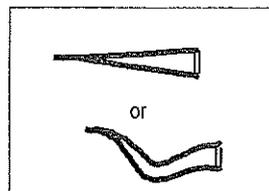
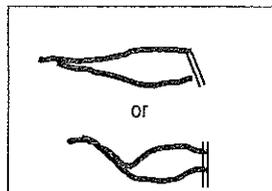
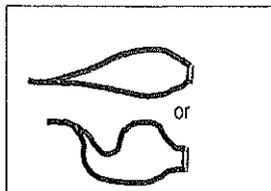
5.4 For off-stream storage, select the most appropriate dam basin shape below

- Triangular 
 Rectangular 
 Circular 
 Branched 

5.5 For in-stream storage, select the shape below that is most similar to the dam basin

(in these diagrams, flow is from left to right and the || symbol shows the position of the dam wall)

- Bulbous Carrot Triangle Funnel



5.6 Dam basin dimensions

a) Length (or diameter if round)

145

metres

(for in-stream storage, measure along the centre-line)

b) Width (leave blank if round)

74

metres

(for in-stream storage, measure at the widest point)

6. CONTACT DETAILS OF PERSON IN CONTROL OF THE DAM

6.1 Surname PRETORIUS First Name NICO Title MR

6.2 Phone Number 0117854502 Ext

Fax Number 0866929728

6.3 Cellphone Number 0828240913

6.4 Email Address NPretorius@coalofafrica.co.za

7. CLASSIFICATION INFORMATION N/A

7.1 Has the dam been classified? Yes No (if no, complete form DW793: Dam Classification)

7.2 If the dam has been classified, then complete the following

Date of classification of the dam (ccyymmdd)

Category classification (mark only one block with an X)

<input type="checkbox"/> I	<input type="checkbox"/> II	<input type="checkbox"/> III	
Small	Medium	Large	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hazard potential rating (mark only one block with X)	Low	Significant	High
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. DAM STRUCTURE

8.1 Type of dam (mark applicable type with an X – mark more than one for composite dams)

<input type="checkbox"/> Arch	<input checked="" type="checkbox"/> Earth reservoir	<input type="checkbox"/> Multi-arch
<input type="checkbox"/> Buttress	<input type="checkbox"/> Gravity	<input type="checkbox"/> Reinforced concrete reservoir
<input type="checkbox"/> Other (specify) _____		

9. SPILLWAY INFORMATION

9.1 Information about the spillway

a) Type of spillway (mark applicable type with an X – mark more than one if necessary)

<input type="checkbox"/> By-wash	<input type="checkbox"/> Drop inlet	<input type="checkbox"/> Shaft
<input type="checkbox"/> Cascade	<input type="checkbox"/> Free fall (straight drop)	<input type="checkbox"/> Side channel
<input type="checkbox"/> Chute (baffled, etc.)	<input type="checkbox"/> Labyrinth	<input type="checkbox"/> Siphon
<input checked="" type="checkbox"/> Chute (lined)	<input type="checkbox"/> Morning glory	<input type="checkbox"/> Stepped
<input type="checkbox"/> Conduit	<input type="checkbox"/> Ogee (overflow)	<input type="checkbox"/> Other (describe) _____
<input type="checkbox"/> Culvert	<input checked="" type="checkbox"/> Open channel	

b) Crest length of spillway 1.50 metres

12. EXISTING AUTHORISATION

12.1 Existing permit information

	Permit number	Date (ccyymmdd)
Permit No.	Registration No 27019556	20010525
Permit No.		

12.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

12.3 If an authorisation has been issued under other legislation

Law /Regulation

13. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Overclabte	T22619/2009		MS								
			125								
			S								

14. FOR OFFICE USE ONLY

14.1 Billing information

			Start date (ccyymmdd)	End date (ccyymmdd)
14.1.1	Applicant billed as:	<input type="checkbox"/> An Individual	<input type="checkbox"/> Via a WUAWSP	<input type="text"/>
14.1.2	Applicant to be charged:	<input type="checkbox"/> On actual volume	<input type="checkbox"/> Registered volume	<input type="text"/>
14.1.3	Billing Frequency:	<input type="checkbox"/> Annually	<input type="checkbox"/> Bi-annually	<input type="checkbox"/> Monthly

14.1.4 If to be billed via a WUA /WSP

Name of WUAWSP

Is WUAWSP a Billing Agent? Yes No

Billing Agent Register Number

14.1.5 If this WU is to be billed via Bulk Billing Party that is not a WSP/WUA, complete the following

Name of Customer

Bulk-Bill-to-Party Register Number

14.1.6 Is the Dam billable? Yes No

14.1.7 Is this a Safety Risk Dam? Yes No

14.1.8 Annual Average Evaporative Loss

Start Date (ccyymmdd)	<input type="text"/>	Volume	<input type="text"/>
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14.2 District Municipality

District Municipality Name (if applicable)

14.3 Late Registration Penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

Waive penalty



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
STORING WATER
DAM AND BASIN TECHNICAL DATA

SPECIAL NOTE

In the following two cases:
 - A proposed dam which has not yet been classified, or
 - An existing dam which will be enlarged by increasing the gross storage capacity,
 dam classification *must* take place before the licence application.
 In these cases, complete *only* parts 1, 2, 3, and 4 of this form, and complete form DW793 (*Dam Classification*).

1. GENERAL

1.1 Name of the dam:

1.2 If the water is to be stored in a watercourse, then enter the name of the watercourse:

1.3 For off-channel storage, enter the name of the watercourse to which the water would naturally drain:

1.4 For **clean water** dams, give the purpose of the dam:
 (mark applicable purpose with *X* – mark more than one for multi-purpose dams):

Domestic supply Fisheries Industrial use
 Irrigation Stock watering Other (specify below)

Describe "other"

1.5 For **wastewater** dams, give the purpose of the dam:
 (mark applicable purpose with *X* – mark more than one for multi-purpose dams):

Pollution control Wastewater disposal Industrial residue
 Oxidation or evaporation Mine residue Other (specify below)

Describe "other"

1.6 Person in control of the dam

a) Surname and initials

b) Contact telephone number
 Area/cell code Number Extension

1.7 Person responsible for day-to-day operation of the dam

a) Surname and initials

b) Contact telephone number
 Area/cell code Number Extension

2. COMPLETION DATE AND LOCATION OF DAM

2.1 Date of completion or proposed completion of the dam: 20010925

2.2 Nearest city or town MUSINA

2.3 Distance from nearest city or town: 60 km

2.4 Direction to dam from nearest city or town: ↑ ↗ → ↘ ↓ ↙ ← ↖

2.5 Number of 1:50 000 scale topographic map (or 1:10 000 orthophoto): 2922 ()
 (attach a copy of the relevant portion of this map, with the position of the dam clearly marked)

2.6 Geographic position of centre of dam wall:
S 22° 08' 06.3" or S ° ' " Cape datum Clarke
E 029° 38' 39.6" or E 0° ' " WGS-84 datum

3. CLASSIFICATION INFORMATION

3.1 Has the dam been classified? Yes No (if no, please complete form DW793 - Dam Classification)

If the dam has been classified, then complete the following: N/A

Date of classification of the dam

Category classification (mark one with X) I II III

Size class (mark one with X) Small Medium Large

Hazard potential rating (mark one with X) Low Significant High

4. DAM STRUCTURE AND DAM BASIN

4.1 Type of dam (mark applicable type with X – mark more than one for composite dams):

Earthfill Rockfill Gravity
 Buttress Arch Multi-arch
 Earth reservoir Industrial residue deposit * Reinforced concrete reservoir
 Mine residue deposit * * These structures include tailings

Other (specify)

4.2 Size of dam Maximum wall height ** 28 metres

** "wall height" is the vertical difference between the lowest downstream ground elevation on the dam wall and the non-overspill crest level or the general top level of the dam wall

Gross storage capacity 21 thousand cubic metres

Water surface area at full supply level 1.24 hectares

5. DIMENSIONS OF DAM AND DESCRIPTION OF MATERIALS

5.1 Crest length of wall *** metres
 *** The length of the crest includes the length of the spillway, where applicable.

5.2 Crest width of wall (minimum) metres

5.3 Base width of wall (maximum) metres

5.4 Upstream slope, e.g. 1.0 V : 3.0 H V : H

5.5 Downstream slope, e.g. 1.0 V : 2.25 H V : H

5.6 Type of upstream slope protection (e.g. rock, stone, etc.)

5.7 Type of downstream slope protection (e.g. grass, gravel, etc.)

General description of the construction materials for use in the different zones of the wall:

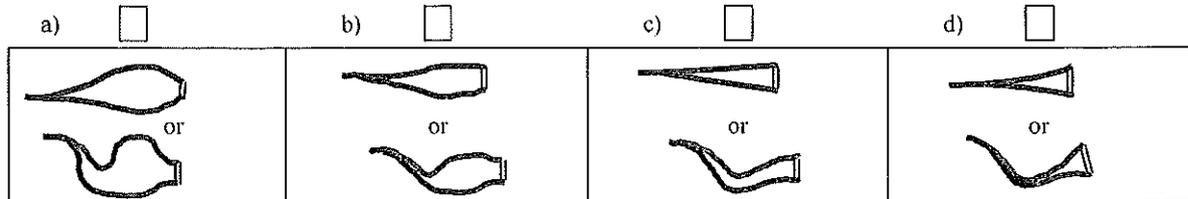
Zone	Description
O1 WALL	COMPACTED EARTH
O2 WEIR	CONCRETE

6. DAM BASIN CHARACTERISTICS

6.1 Water depth at full supply level metres

6.2 For off-stream storage, select the dam basin shape:
 Triangular Rectangular Circular Branched Y
 Other (specify):

6.3 For in-stream storage, select the shape below that is most similar to the dam basin:
 (in these diagrams, flow is from left to right and the || symbol shows the position of the dam wall)



6.4 Dam basin dimensions:
 a) Length (or diameter if round) metres (for in-stream storage, measure along the centre-line)
 b) Width (leave blank if round) metres (for in-stream storage, measure at the widest point)

7. FLOOD HYDROLOGY

7.1 Catchment area N/A - above ground storage [†] square kilometres
[†] for catchment areas less than 20 km², enter the area to the nearest 0.1 km²

7.2 Recurrence interval of design flood years

7.3 Design flood cubic metres / second

7.4 Regional maximum flood (RMF) cubic metres / second

7.5 Probable maximum flood (PMF) cubic metres / second

8. SPILLWAY

8.1 Main spillway details

a) Type of spillway (mark applicable type with 'X' - mark more than one if necessary):

Free fall (straight drop) <input type="checkbox"/>	Ogee (overflow) <input type="checkbox"/>	Chute (lined) <input type="checkbox"/>
Stepped <input type="checkbox"/>	Open channel <input checked="" type="checkbox"/>	Side channel <input type="checkbox"/>
Conduit <input type="checkbox"/>	By-wash <input type="checkbox"/>	Shaft <input type="checkbox"/>
Culvert <input type="checkbox"/>	Labyrinth <input type="checkbox"/>	Chute (baffled, etc.) <input type="checkbox"/>
Morning glory <input type="checkbox"/>	Siphon <input type="checkbox"/>	Cascade <input type="checkbox"/>
Drop inlet <input type="checkbox"/>	Other (describe) <input type="checkbox"/>	<input type="text"/>

b) Total freeboard (difference between non-overspill crest level and full supply level) 0.5 metres

c) Dry freeboard (difference between non-overspill crest level and design flood level) 0.2 metres

d) Width of spillway channel at full supply level 1.5 metres

e) Width of spillway channel at non-overspill crest level 1.5 metres

f) Effective crest length of spillway metres

g) Discharge capacity of spillway with "zero" freeboard m³/sec

h) Length of spillway channel 5 metres

j) Slope of spillway channel as a ratio of height to distance (e.g. 1.0V : 40.0 H) 1.0 V : 2 H

k) Non-overspill crest level metres

l) Spillway crest level (full supply level) metres

m) Riverbed or lowest ground level immediately downstream of dam wall metres

n) Description of spillway gates, if any

o) Type of energy dissipator, if any Concrete Block + Stilling Chamber

8.2 Auxiliary or second spillway (if any): details

a) Location of auxiliary spillway

b) Auxiliary spillway nature or type

c) Auxiliary spillway crest level metres

d) Effective crest length of auxiliary spillway metres

8.3 Does the dam structure incorporate a fish ladder or fish way? Yes No



Registration / Licensing

Section 21(b) of the National Water Act

Part 2

STORING WATER – DAM REGISTRATION

SPECIAL NOTE

This application form may be used for registering any of the following:

- a) A dam which can store more than 50 000 cubic meters and has a dam wall which is more than 5 meters high;
- b) A dam belonging to a category of dams declared under section 118(2) of the NWA to be dams with a safety risk; or declared under section 118(3)(a) of the NWA to be a dam with a safety risk;
- c) A dam which is deemed to be significant by the applicant or the relevant office.

Registration of: New Dam
 (mark only one block with an X) Existing dam registered on NRWU

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry? Yes No

Registration Number:

Grid for Registration Number: 10 empty boxes

Water Use Number:

Grid for Water Use Number: 5 empty boxes

Licence Related WU

RLA Reference

Grid for RLA Reference: 12 empty boxes

NRWU Licence Number

Grid for NRWU Licence Number: 10 empty boxes with a slash in the 8th box

RLA Business Unit

Grid for RLA Business Unit: 12 empty boxes

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

For office use only

Allocated Reg. No. [Grid: 8 empty boxes]

WU No. [Grid: 4 empty boxes]

1.2 Applicant Type (mark only one block with X)

- Individual (complete 1.3)

 Provincial Department (complete 1.6)
- Company, business, partnership or community (complete 1.4)

 Water Services Provider (complete 1.7)
- National Department (complete 1.5)

 Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:**1.4.1** Name of company, business, partnership or community:

1.4.2 Business Enterprise Registration Number

1.4.3 Date Established (ccyymmdd)

Country Where Established

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



[Signature]
Signature
Company Representative
Designation of signatory

(01) 735 45 18
Contact number during office hours
2009/11/05
Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a Succession or a Transfer related Water Use? Yes
(Mark only one box with an X) No

2.2 If yes, mark with an X the Succession / Transfer Type Full Temporary Transfer Partial Temporary Transfer
 Permanent Transfer Succession in Title

2.3 Source Register Number

--	--	--	--	--	--	--	--

 WU Number

--	--	--	--

Source Register Number

--	--	--	--	--	--	--	--

 WU Number

--	--	--	--

Source Register Number

--	--	--	--	--	--	--	--

 WU Number

--	--	--	--

3. GENERAL DAM INFORMATION

3.1 Name of the dam PROCESS HOLDING TANKS

3.2 If the water is to be stored in a watercourse, then enter the name of the watercourse

3.3 For off-stream storage, enter the name of the watercourse to which the water would naturally drain
LIMPOPO RIVER

3.4 Surname and initials or business name of designer or consultant NA Initials

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3.5 Surname and initials or business name of contractor

N/A

Initials

Grid for initials

4. PURPOSE OF DAM

Identify the purpose that the dam is used for:

- Agriculture: Irrigation (DW787)
Agriculture: Watering Livestock
Agriculture: Aquaculture
Industry
Mining (DW788)
Recreation
Schedule 1
Water Supply Service (DW789)

5. DAM SIZE AND BASIN INFORMATION

5.1 Date of completion of the dam (ccyymmdd)

20100301

5.2 Size of dam

a) Maximum wall height ** (tank height) 3.60 metres

** "wall height" is the vertical difference between the lowest downstream ground elevation on the dam wall and the non-overspill crest level or the general top level of the dam wall

b) Crest length of wall *** N/A metres

*** The length of the crest includes the length of the spillway, where applicable.

c) Gross storage capacity 1 thousand cubic metres

d) Water surface area at full supply level 0.03 hectares

5.3 Water depth at full supply level

3.60 metres

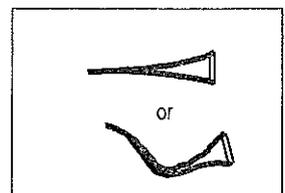
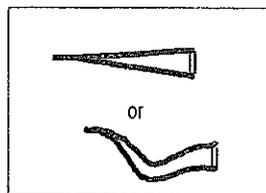
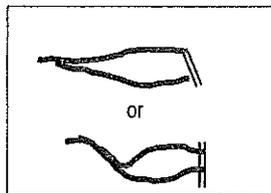
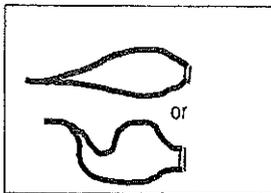
5.4 For off-stream storage, select the most appropriate dam basin shape below

- Triangular, Rectangular, Circular, Branched Y

5.5 For in-stream storage, select the shape below that is most similar to the dam basin

(in these diagrams, flow is from left to right and the || symbol shows the position of the dam wall)

- Bulbous, Carrot, Triangle, Funnel



5.6 Dam basin dimensions

a) Length (or diameter if round) 10.6 metres (for in-stream storage, measure along the centre-line)

b) Width (leave blank if round) metres (for in-stream storage, measure at the widest point)

6. CONTACT DETAILS OF PERSON IN CONTROL OF THE DAM

6.1 Surname: PRETORIUS First Name: NICO Title: MR

6.2 Phone Number: 0117854502 Ext:

Fax Number: 0866929728

6.3 Cellphone Number: 0828240913

6.4 Email Address: NPretorius@coalofafrica.co.za

7. CLASSIFICATION INFORMATION

N/A - Premanufactured Galaxy Tank

7.1 Has the dam been classified? Yes No (if no, complete form DW793: Dam Classification)

7.2 If the dam has been classified, then complete the following

Date of classification of the dam (ccyymmdd):

Category classification (mark only one block with an X): I II III

Size class (mark only one block with an X): Small Medium Large

Hazard potential rating (mark only one block with X): Low Significant High

8. DAM STRUCTURE

8.1 Type of dam (mark applicable type with an X – mark more than one for composite dams)

Arch Earth reservoir Multi-arch

Buttress Gravity Reinforced concrete reservoir

Other (specify) Steel tank

9. SPILLWAY INFORMATION

9.1 Information about the spillway

a) Type of spillway (mark applicable type with an X – mark more than one if necessary)

By-wash Drop inlet Shaft

Cascade Free fall (straight drop) Side channel

Chute (baffled, etc.) Labyrinth Siphon

Chute (lined) Morning glory Stepped

Conduit Ogee (overflow) Other (describe)

Culvert Open channel

b) Crest length of spillway metres

12. EXISTING AUTHORISATION

12.1 Existing permit information

Permit number	Date (ccyymmdd)
Permit No. _____	<input type="text"/>

12.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	[E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act	[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation _____			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation _____			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation _____			

12.3 If an authorisation has been issued under other legislation

Law /Regulation

13. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	From:	To:
Bergin Op Zoom	T12375/2009	MS	124	RE	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					

14. FOR OFFICE USE ONLY

14.1 Billing information

			Start date (ccyymmdd)	End date (ccyymmdd)
14.1.1	Applicant billed as:	<input type="checkbox"/> An Individual	<input type="checkbox"/> Via a WUA/WSP	<input type="text"/>
14.1.2	Applicant to be charged:	<input type="checkbox"/> On actual volume	<input type="checkbox"/> Registered volume	<input type="text"/>
14.1.3	Billing Frequency:	<input type="checkbox"/> Annually	<input type="checkbox"/> Bi-annually	<input type="checkbox"/> Monthly

14.1.4 If to be billed via a WUA /WSP

Name of WUA/WSP

Is WUA/WSP a Billing Agent? Yes No

Billing Agent Register Number

14.1.5 If this WU is to be billed via Bulk Billing Party that is not a WSP/WUA, complete the following

Name of Customer

Bulk-Bill-to-Party Register Number

14.1.6 Is the Dam billable? Yes No

14.1.7 Is this a Safety Risk Dam? Yes No

14.1.8 Annual Average Evaporative Loss

Start Date (ccyymmdd)	<input type="text"/>	Volume	<input type="text"/>
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14.2 District Municipality

District Municipality Name (if applicable)

14.3 Late Registration Penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

Waive penalty

1.2 Applicant Type (mark only one block with X)

- Individual (complete 1.3)
- Company, business, partnership or community (complete 1.4)
- National Department (complete 1.5)
- Provincial Department (complete 1.6)
- Water Services Provider (complete 1.7)
- Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

1.4.2 Business Enterprise Registration Number

1.4.3 Date Established (ccymmdd)

Country Where Established

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

 Signature <u>Company Representative</u> Designation of signatory	 Thumb print	<u>(011) 785 4518</u> Contact number during office hours <u>2009/11/05</u> Date (ccyy/mm/dd)
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It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a Succession or a Transfer related Water Use? Yes
 (Mark only one box with an X) No

2.2 If yes, mark with an X the Succession / Transfer Type

<input type="checkbox"/> Full Temporary Transfer	<input type="checkbox"/> Partial Temporary Transfer
<input type="checkbox"/> Permanent Transfer	<input type="checkbox"/> Succession in Title

2.3 Source Register Number WU Number

Source Register Number WU Number

Source Register Number WU Number

3. GENERAL DAM INFORMATION

3.1 Name of the dam OPENCAST HOLDING TANK

3.2 If the water is to be stored in a watercourse, then enter the name of the watercourse

3.3 For off-stream storage, enter the name of the watercourse to which the water would naturally drain

LIMPOPO RIVER

3.4 Surname and initials or business name of designer or consultant N/A Initials

3.5 Surname and initials or business name of contractor

N/A

Initials

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4. PURPOSE OF DAM

Identify the purpose that the dam is used for:

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Irrigation (DW787) | <input checked="" type="checkbox"/> Mining (DW788) |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industry | <input type="checkbox"/> Water Supply Service (DW789) |

5. DAM SIZE AND BASIN INFORMATION

5.1 Date of completion of the dam (ccyymmdd)

2	0	1	0	0	3	0	1
---	---	---	---	---	---	---	---

5.2 Size of dam

a) Maximum wall height ** (tank height)

--	--	--	--	--	--	--	--

 3.6 metres

** "wall height" is the vertical difference between the lowest downstream ground elevation on the dam wall and the non-overspill crest level or the general top level of the dam wall

b) Crest length of wall ***

--	--	--	--	--	--	--	--

 metres

*** The length of the crest includes the length of the spillway, where applicable.

c) Gross storage capacity

--	--	--	--	--	--	--	--

 0.5 thousand cubic metres

d) Water surface area at full supply level

--	--	--	--	--	--	--	--

 0.02 hectares

5.3 Water depth at full supply level

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3.6 metres

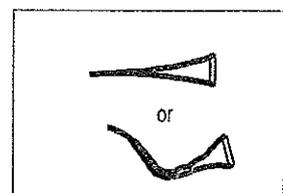
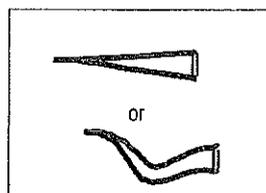
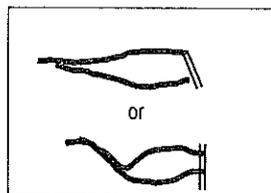
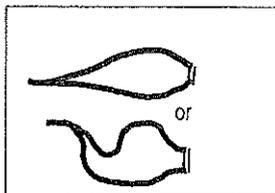
5.4 For off-stream storage, select the most appropriate dam basin shape below

- Triangular
 Rectangular
 Circular
 Branched

5.5 For in-stream storage, select the shape below that is most similar to the dam basin

(in these diagrams, flow is from left to right and the || symbol shows the position of the dam wall)

- Bulbous Carrot Triangle Funnel



5.6 Dam basin dimensions

a) Length (or diameter if round)

--	--	--	--	--	--	--	--

 10.6 metres (for in-stream storage, measure along the centre-line)

b) Width (leave blank if round)

--	--	--	--	--	--	--	--

 metres (for in-stream storage, measure at the widest point)

6. CONTACT DETAILS OF PERSON IN CONTROL OF THE DAM

6.1 Surname: PRETORIUS First Name: NICO Title: MR

6.2 Phone Number: 0117854502 Ext:

Fax Number: 0866929728

6.3 Cellphone Number: 0828240913

6.4 Email Address: NPretorius@coalofafrica.co.za

7. CLASSIFICATION INFORMATION N/A - Premanufactured Galaxy Tank

7.1 Has the dam been classified? Yes No (if no, complete form DW793: Dam Classification)

7.2 If the dam has been classified, then complete the following

Date of classification of the dam (ccyymmdd)

Category classification (mark only one block with an X) I II III

Size class (mark only one block with an X) Small Medium Large

Hazard potential rating (mark only one block with X) Low Significant High

8. DAM STRUCTURE

8.1 Type of dam (mark applicable type with an X – mark more than one for composite dams)

Arch Earth reservoir Multi-arch

Buttress Gravity Reinforced concrete reservoir

Other (specify) Steel tank

9. SPILLWAY INFORMATION

9.1 Information about the spillway

a) Type of spillway (mark applicable type with an X – mark more than one if necessary)

By-wash Drop inlet Shaft

Cascade Free fall (straight drop) Side channel

Chute (baffled, etc.) Labyrinth Siphon

Chute (lined) Morning glory Stepped

Conduit Ogee (overflow) Other (describe)

Culvert Open channel

b) Crest length of spillway metres

12. EXISTING AUTHORISATION

12.1 Existing permit information

	Permit number	Date (ccyymmdd)
Permit No.	_____	<input type="text"/>
Permit No.	_____	<input type="text"/>
Permit No.	_____	<input type="text"/>
Permit No.	_____	<input type="text"/>
Permit No.	_____	<input type="text"/>
Permit No.	_____	<input type="text"/>

12.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	_____	Applicable section of the act	_____
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

12.3 If an authorisation has been issued under other legislation
 Law /Regulation _____

13. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen Op Zoom	T12375/2009	W15	124	RE							
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

14. FOR OFFICE USE ONLY

14.1 Billing information

14.1.1 Applicant billed as: An Individual Via a WUA/WSP

Start date (ccyymmdd)

End date (ccyymmdd)

14.1.2 Applicant to be charged: On actual volume Registered volume

14.1.3 Billing Frequency: Annually Bi-annually Monthly

14.1.4 If to be billed via a WUA /WSP

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent Register Number

14.1.5 If this WU is to be billed via Bulk Billing Party that is not a WSP/WUA, complete the following

Name of Customer _____

Bulk-Bill-to-Party Register Number

14.1.6 Is the Dam billable? Yes No

14.1.7 Is this a Safety Risk Dam? Yes No

14.1.8 Annual Average Evaporative Loss Start Date (ccyymmdd) Volume

14.2 District Municipality

District Municipality Name (if applicable) _____

14.3 Late Registration Penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

PART 2 – SECTION 21(c)

- 1. MAIN HAUL ROAD CULVERT**
- 2. ACCESS ROAD CULVERT #1**
- 3. ACCESS ROAD CULVERT #2**
- 4. ACCESS ROAD CULVERT #3**
- 5. ACCESS ROAD CULVERT #4**

ASSOCIATED FORMS:

- 1. DW781suppl – Available information contained in the attached IWWMP and associated specialist reports.**

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number 006072107

1.4.3 Date Established (ccyymmdd) 20050224

Country Where Established RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

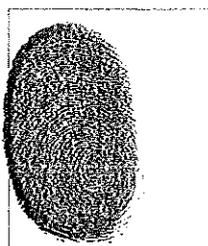
1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa
 Signature
Company Rep
 Designation of signatory

(011) 785 14518
 Contact number during office hours
2009/11/09
 Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a succession Related Water Use? Yes
 (Mark only one box with an X) No

2.2 If yes, complete the following source details:

2.3 Source Register Number WU Number
 Source Register Number WU Number
 Source Register Number WU Number

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

3.1 Registration of (mark only one block with X) Impeding flow (complete part 3,4,6 and 7)
 Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

4.1 Name of water source (watercourse, surface water or estuary)
UNNAMED TRIBUTARY OF LIMPOPO RIVER

4.2 Type of water source (mark with an X)
 River or stream Spring Estuary Wetland Eye

4.3 Quaternary Drainage Region A71L

5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedence (in one format only)

Latitude S 22° 10' 16.9" or S ° or S °

Longitude E 29° 40' 44.8" or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

5.2 Name of Impending structure
MAIN HAUL ROAD CULVERT

5.3 Impeding structure

a) Height of structure* metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure) metres

c) Length of structure metres

d) Materials used in building the structure (list)

PRE-CAST BOX CULVERTS

5.4 Enter the number of impeding structures on this property

6. DIVERTING THE FLOW IN A WATERCOURSE

6.1 Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

Latitude ° ' " or ° or ° ' "

Longitude ° ' " or ° or ° ' "

Datum Type: Cape (Modified Clarke 1880) WGS-84

b) Geographic location of the end of the diversion (in one format only)

Latitude ° ' " or ° or ° ' "

Longitude ° ' " or ° or ° ' "

Datum Type: Cape (Modified Clarke 1880) WGS-84

6.2 Name of Diversion structure

6.3 Diversion structure

a) Height of structure* metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure) metres

c) Length of diversion along the watercourse (mark units with X) kilometers metres

d) Materials used in building the structure

6.4 Enter the number of diversion structures on this property

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

- Diversion through a pipe
 Diversion through a canal
 Impeding structure
 Other diversion (specify below)

7.2 Start date of activity (ccyyymmdd) 20100301

7.3 Flow rate before diversion or impendance 26.5 cubic metres per second

7.4 Flow rate after diversion or impendance 26.5 cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

HAUL ROAD

7.6 If the activity is mining-related, complete the following

- e) Distance of the mining-related activity from the original watercourse 800 metres
- f) Distance of the mining-related activity from the watercourse after impendance or diversion 800 metres
- g) Depth of undermining of watercourse, if applicable metres
- h) Mining method used in c), (if any) OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Industry (Urban) |
| <input type="checkbox"/> Agriculture: Irrigation | <input checked="" type="checkbox"/> Mining |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Power Generation |
| <input type="checkbox"/> Evaporation (Storage) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Industry (Non-urban) | <input type="checkbox"/> Water Supply Service |

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers

Permit No.	Permit number	Date (ccyymmdd)
Permit No.		<input type="text"/>

9.3 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	[E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act	[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

9.4 If an authorisation has been issued under other legislation
 Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property		Unsurveyed property		Property Relationship	
	Title Deed Number	Surveyor-General Cadastral Code	Title Deed Number	Surveyor-General Cadastral Code	Date	To:
Bergen Op Zoom 124 MS	T 12375/2009	MS	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	From:	To:
	124	RE	Local Authority (if applicable)	Magisterial District (if applicable)		
			Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
			Tribal Authority/Council (if applicable)	Surname of the Leader of Village, Community or Tribal Authority		
			Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)		
			Local Authority (if applicable)	Magisterial District (if applicable)		
			Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
			Tribal Authority/Council (if applicable)	Surname of the Leader of Village, Community or Tribal Authority		
			Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)		
			Local Authority (if applicable)	Magisterial District (if applicable)		
			Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
			Tribal Authority/Council (if applicable)	Surname of the Leader of Village, Community or Tribal Authority		
			Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)		
			Local Authority (if applicable)	Magisterial District (if applicable)		
			Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
			Tribal Authority/Council (if applicable)	Surname of the Leader of Village, Community or Tribal Authority		



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(c) of the National Water Act

Part 2

IMPEDING OR DIVERTING THE FLOW OF WATER IN A WATERCOURSE

SPECIAL NOTE

This form is not applicable to any structure that is capable of containing, storing or impounding water. For these structures, please complete form DW762

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

Yes

No

Registration Number:

Registration Number grid

Water Use Number:

Water Use Number grid

Licence Related WU

RLA Reference

RLA Reference grid

NRWU Licence Number

NRWU Licence Number grid

RLA Business Unit

RLA Business Unit grid

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

Individual (complete 1.3)

Company, business, partnership or community (complete 1.4)

National Department (complete 1.5)

Provincial Department (complete 1.6)

Water Services Provider (complete 1.7)

Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1

Title

Title grid

Surname

Surname grid

Initials

Initials grid

For office use only

Allocated Reg. No.

Allocated Reg. No. grid

WU No.

WU No. grid

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

ESA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

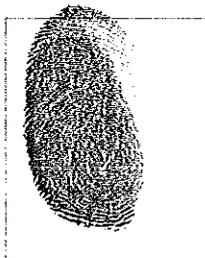
1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative

Designation of signatory

(011) 785 1518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a succession Related Water Use? (Mark only one box with an X)
[] Yes
[X] No

2.2 If yes, complete the following source details:

2.3 Source Register Number [] [] [] [] [] [] [] [] WU Number [] [] [] []
Source Register Number [] [] [] [] [] [] [] [] WU Number [] [] [] []
Source Register Number [] [] [] [] [] [] [] [] WU Number [] [] [] []

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

3.1 Registration of (mark only one block with X)
[X] Impeding flow (complete part 3,4,6 and 7)
[] Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

4.1 Name of water source (watercourse, surface water or estuary)
UNNAMED TRIBUTARY OF LIMPOPO RIVER

4.2 Type of water source (mark with an X)
[X] River or stream [] Spring [] Estuary [] Welland [] Eye

4.3 Quaternary Drainage Region
A71L

5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedance (in one format only)

Latitude S 22° 14' 08.0" or S [] [] [] [] [] [] [] [] or S [] [] [] [] [] [] [] []
Longitude E 29° 40' 40.3" or E [] [] [] [] [] [] [] [] or E [] [] [] [] [] [] [] []
Datum Type: [] Cape (Modified Clarke 1880) [X] WGS-84

5.2 Name of Impending structure
ACCESS ROAD CULVERT #1

5.3

Impeding structure

a) Height of structure*

metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

metres

c) Length of structure

metres

d) Materials used in building the structure (list)

PRE-CAST BOX CULVERTS

5.4

Enter the number of impeding structures on this property

6. DIVERTING THE FLOW IN A WATERCOURSE

6.1 Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

Latitude ° ' " or ° ' "

Longitude ° ' " or ° ' "

Datum Type: Cape (Modified Clarke 1880) WGS-84

b) Geographic location of the end of the diversion (in one format only)

Latitude ° ' " or ° ' "

Longitude ° ' " or ° ' "

Datum Type: Cape (Modified Clarke 1880) WGS-84

6.2 Name of Diversion structure

6.3 Diversion structure

a) Height of structure*

metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

metres

c) Length of diversion along the watercourse (mark units with X)

kilometers metres

d) Materials used in building the structure

6.4

Enter the number of diversion structures on this property

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

- Diversion through a pipe
 Diversion through a canal
 Impeding structure
 Other diversion (specify below)

7.2 Start date of activity (ccyymmdd)

20100301

7.3 Flow rate before diversion or impedance

3.7

cubic metres per second

7.4 Flow rate after diversion or impedance

3.7

cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

Access Road construction

7.6 If the activity is mining-related, complete the following

e) Distance of the mining-related activity from the original watercourse

+1000

metres

f) Distance of the mining-related activity from the watercourse after impedance or diversion

+1000

metres

g) Depth of undermining of watercourse, if applicable

metres

h) Mining method used in c), (if any)

OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Industry (Urban) |
| <input type="checkbox"/> Agriculture: Irrigation | <input checked="" type="checkbox"/> Mining |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Power Generation |
| <input type="checkbox"/> Evaporation (Storage) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Industry (Non-urban) | <input type="checkbox"/> Water Supply Service |

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers

Permit number	Date (ccyymmdd)
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>

9.3 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	[E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act	[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

9.4 If an authorisation has been issued under other legislation
 Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property		Unsurveyed property		Property Relationship	
	Title Deed Number	Surveyor-General Cadastral Code	Title Deed Number	Surveyor-General Cadastral Code	Date	To:
Erfurst 123 MS			T11442/2009	MS		
	Property Number		123			
	Portion of property		-			
	Title Deed Number					
	Surveyor-General Cadastral Code					
	Property Number					
	Portion of property					
	Title Deed Number					
	Surveyor-General Cadastral Code					
	Property Number					
	Portion of property					
	Title Deed Number					
	Surveyor-General Cadastral Code					
	Property Number					
	Portion of property					

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number 006072107

1.4.3 Date Established (ccyymmdd) 20050224

Country Where Established RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

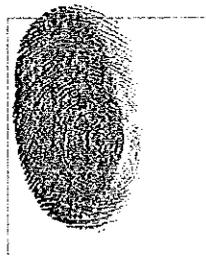
1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative

Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a succession Related Water Use? Yes
 (Mark only one box with an X) No

2.2 If yes, complete the following source details:

2.3 Source Register Number WU Number
 Source Register Number WU Number
 Source Register Number WU Number

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

3.1 Registration of (mark only one block with X) Impeding flow (complete part 3,4,6 and 7)
 Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

4.1 Name of water source (watercourse, surface water or estuary)
UNNAMED TRIBUTARY OF LIMPOPO RIVER

4.2 Type of water source (mark with an X)
 River or stream Spring Estuary Wetland Eye

4.3 Quaternary Drainage Region A71L

5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedance (in one format only)

Latitude S 22° 12' 48.4" or S ° or S °

Longitude E 29° 40' 41.9" or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

5.2 Name of Impending structure
ACCESS ROAD CULVERT #2

5.3

Impeding structure

a) Height of structure*

metres

*"Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

metres

c) Length of structure

metres

d) Materials used in building the structure (list)

PRE-CAST BOX CULVERTS

5.4

Enter the number of impeding structures on this property

6. DIVERTING THE FLOW IN A WATERCOURSE

6.1 Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

Latitude ° ' " or ° ' " or ° ' "

Longitude ° ' " or ° ' " or ° ' "

Datum Type: Cape (Modified Clarke 1880) WGS-84

b) Geographic location of the end of the diversion (in one format only)

Latitude ° ' " or ° ' " or ° ' "

Longitude ° ' " or ° ' " or ° ' "

Datum Type: Cape (Modified Clarke 1880) WGS-84

6.2 Name of Diversion structure

6.3 Diversion structure

a) Height of structure*

metres

*"Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

metres

c) Length of diversion along the watercourse (mark units with X)

kilometers metres

d) Materials used in building the structure

6.4

Enter the number of diversion structures on this property

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

- Diversion through a pipe Diversion through a canal Impeding structure
 Other diversion (specify below)

7.2 Start date of activity (ccyymmdd)

20100301

7.3 Flow rate before diversion or impedance

14.8 cubic metres per second

7.4 Flow rate after diversion or impedance

14.8 cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

Access Road construction

7.6 If the activity is mining-related, complete the following

- e) Distance of the mining-related activity from the original watercourse +1000 metres
- f) Distance of the mining-related activity from the watercourse after impedance or diversion +1000 metres
- g) Depth of undermining of watercourse, if applicable metres
- h) Mining method used in c), (if any) OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Industry (Urban) |
| <input type="checkbox"/> Agriculture: Irrigation | <input checked="" type="checkbox"/> Mining |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Power Generation |
| <input type="checkbox"/> Evaporation (Storage) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Industry (Non-urban) | <input type="checkbox"/> Water Supply Service |

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers

Permit number	Date (ccyymmdd)
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>

9.3 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	[E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act	[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

9.4 If an authorisation has been issued under other legislation

Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property		Unsurveyed property		Property Relationship	
	Title Deed Number	Surveyor-General Cadastral Code	Title Deed Number	Surveyor-General Cadastral Code	Date From:	Date To:
Erstust 123 MS			T11442/2009			
			MS			
			123			
			-			



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(c) of the National Water Act

Part 2

IMPEDING OR DIVERTING THE FLOW OF WATER IN A WATERCOURSE

SPECIAL NOTE
This form is not applicable to any structure that is capable of containing, storing or impounding water.
For these structures, please complete form DW762

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

Yes

No

Registration Number:

Registration Number grid

Water Use Number:

Water Use Number grid

Licence Related WU

RLA Reference

RLA Reference grid

NRWU Licence Number

NRWU Licence Number grid

RLA Business Unit

RLA Business Unit grid

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

Individual (complete 1.3)

Company, business, partnership or community (complete 1.4)

National Department (complete 1.5)

Provincial Department (complete 1.6)

Water Services Provider (complete 1.7)

Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1

Title

Title grid

Surname

Surname grid

Initials

Initials grid

For office use only

Allocated Reg. No.

Allocated Reg. No. grid

WU No.

WU No. grid

1.3.2 South African ID (If holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Baldwin Khosa

Signature

Company Representative

Designation of signatory

Thumb print

(011) 735 14578

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a succession Related Water Use? Yes
 (Mark only one box with an X) No

2.2 If yes, complete the following source details:

2.3 Source Register Number WU Number
 Source Register Number WU Number
 Source Register Number WU Number

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

3.1 Registration of (mark only one block with X) Impeding flow (complete part 3,4,6 and 7)
 Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

4.1 Name of water source (watercourse, surface water or estuary)
UNDAMED TRIBUTARY OF LIMPOPO RIVER

4.2 Type of water source (mark with an X)
 River or stream Spring Estuary Wetland Eye

4.3 Quaternary Drainage Region A71L

5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedence (in one format only)

Latitude S 22° 11' 49.8" or S ° or S °

Longitude E 29° 40' 36.4" or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

5.2 Name of Impending structure
ACCESS ROAD CULVERT #3

5.3

Impeding structure

a) Height of structure*

metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

metres

c) Length of structure

metres

d) Materials used in building the structure (list)

PRE-CAST BOX CULVERTS

5.4

Enter the number of impeding structures on this property

6.

DIVERTING THE FLOW IN A WATERCOURSE

6.1

Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

Latitude ° ' " or ° or ° "

Longitude ° ' " or ° or ° "

Datum Type: Cape (Modified Clarke 1880) WGS-84

b) Geographic location of the end of the diversion (in one format only)

Latitude ° ' " or ° or ° "

Longitude ° ' " or ° or ° "

Datum Type: Cape (Modified Clarke 1880) WGS-84

6.2

Name of Diversion structure

6.3

Diversion structure

a) Height of structure*

metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

metres

c) Length of diversion along the watercourse (mark units with X)

kilometers metres

d) Materials used in building the structure

6.4

Enter the number of diversion structures on this property

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

- Diversion through a pipe
 Diversion through a canal
 Impeding structure
 Other diversion (specify below)

7.2 Start date of activity (ccyyymmdd)

20100301

7.3 Flow rate before diversion or impedance

7.4

cubic metres per second

7.4 Flow rate after diversion or impedance

7.4

cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

Access Road construction

7.6 If the activity is mining-related, complete the following

e) Distance of the mining-related activity from the original watercourse

+1000

metres

f) Distance of the mining-related activity from the watercourse after impedance or diversion

+1000

metres

g) Depth of undermining of watercourse, if applicable

metres

h) Mining method used in c), (if any)

OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Industry (Urban) |
| <input type="checkbox"/> Agriculture: Irrigation | <input checked="" type="checkbox"/> Mining |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Power Generation |
| <input type="checkbox"/> Evaporation (Storage) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Industry (Non-urban) | <input type="checkbox"/> Water Supply Service |

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers

Permit No.	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

9.3 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	[E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act	[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

9.4 If an authorisation has been issued under other legislation

Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Date	To:
Bergen Op Zoom 124 MS	T12375/2009	MS	124	RE	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Baldwin Khosa

Signature

Company Representative

Designation of signatory

Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a succession Related Water Use? Yes
 (Mark only one box with an X) No

2.2 If yes, complete the following source details:

2.3 Source Register Number

--	--	--	--	--	--	--	--

 WU Number

--	--	--	--

 Source Register Number

--	--	--	--	--	--	--	--

 WU Number

--	--	--	--

 Source Register Number

--	--	--	--	--	--	--	--

 WU Number

--	--	--	--

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

3.1 Registration of (mark only one block with X) Impeding flow (complete part 3,4,6 and 7)
 Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

4.1 Name of water source (watercourse, surface water or estuary)
UNDAMED TRIBUTARY OF LIMPOPO RIVER

4.2 Type of water source (mark with an X)
 River or stream Spring Estuary Wetland Eye

4.3 Quaternary Drainage Region

A	7	1	L
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5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedance (in one format only)

Latitude

S	22
---	----

 °

11

 '

10	9
----	---

 " or S

--	--	--	--

 ° or S

--	--

 °

--	--	--	--

 '

Longitude

E	29
---	----

 °

40

 '

07	0
----	---

 " or E

--	--	--	--

 ° or E

--	--

 °

--	--	--	--

 '

Datum Type: Cape (Modified Clarke 1880) WGS-84

5.2 Name of Impending structure

ACCESS ROAD CULVERT #4

5.3 Impeding structure

a) Height of structure* metres

*"Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure) metres

c) Length of structure metres

d) Materials used in building the structure (list)

PRE-CAST BOX CULVERTS

5.4 Enter the number of impeding structures on this property

6. DIVERTING THE FLOW IN A WATERCOURSE

6.1 Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

Latitude ° ' " or ° ' "

Longitude ° ' " or ° ' "

Datum Type: Cape (Modified Clarke 1880) WGS-84

b) Geographic location of the end of the diversion (in one format only)

Latitude ° ' " or ° ' "

Longitude ° ' " or ° ' "

Datum Type: Cape (Modified Clarke 1880) WGS-84

6.2 Name of Diversion structure

6.3 Diversion structure

a) Height of structure* metres

*"Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure) metres

c) Length of diversion along the watercourse (mark units with X) kilometers metres

d) Materials used in building the structure

6.4 Enter the number of diversion structures on this property

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

- Diversion through a pipe
 Diversion through a canal
 Impeding structure
 Other diversion (specify below)

7.2 Start date of activity (ccyymmdd)

20100301

7.3 Flow rate before diversion or impedance

14.8

cubic metres per second

7.4 Flow rate after diversion or impedance

14.8

cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

Access Road construction

7.6 If the activity is mining-related, complete the following

e) Distance of the mining-related activity from the original watercourse

+1000

metres

f) Distance of the mining-related activity from the watercourse after impedance or diversion

+1000

metres

g) Depth of undermining of watercourse, if applicable

metres

h) Mining method used in c), (if any)

OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Industry (Urban) |
| <input type="checkbox"/> Agriculture: Irrigation | <input checked="" type="checkbox"/> Mining |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Power Generation |
| <input type="checkbox"/> Evaporation (Storage) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Industry (Non-urban) | <input type="checkbox"/> Water Supply Service |

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers

Permit number	Date (ccyymmdd)
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>

9.3 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>		
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>		
Applicable Section Of The General Authorisation			
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>		
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>		
Applicable Section Of The General Authorisation			
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>		
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>		
Applicable Section Of The General Authorisation			

9.4 If an authorisation has been issued under other legislation
 Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Date	To:
Bergan Op Zoom 124 MS	T12375/2009	MS	124	RE	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					

File number

Water Use Register Number

Received by:

Surname Initials

Position / Rank

Signature

Captured on NRWU database

(ccymmdd)

Captured by:

Surname Initials

Signature

Date stamp of receiving office

PART 2 – SECTION 21(e)

- 1. IRRIGATION WITH SEWAGE EFFLUENT**
- 2. DUST SUPPRESSION WITH PIT WATER**

ASSOCIATED FORMS:

- 1. DW901 – Refer to PART 1**
- 2. DW902 – Refer to PART 1**
- 3. DW905 – Refer to S21(g)**
- 4. DW805 – Refer to S21(j)**



water affairs

Department: Water Affairs REPUBLIC OF SOUTH AFRICA

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(e) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Sections 21(e): engaging in a controlled activity: irrigation of any land with waste or water containing waste generated through any industrial activity or by a waterwork.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Indicate the nature of this application: [X] Licence [] Registration (only)
1.2 Have you already registered a water use with the Department of Water Affairs and Forestry? [] Yes [X] No
1.3 Indicate if Section 21(j) is applicable to this water use application: [] Yes [X] No
1.4 Do you have a licence, permit or exemption for this waste discharge? [] Yes [X] No

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)

 Provincial Department (complete 1.9)
- Company, business, partnership or community (complete 1.7)

 Water Services Provider (complete 1.10)
- National Department (complete 1.8)

 Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the applicant is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the applicant is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the applicant is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S))
 hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative

Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

- | | |
|--|---|
| Agriculture | |
| <input type="checkbox"/> Aquaculture | <input type="checkbox"/> Intensive Animal Husbandry |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Other (please specify below) |
| Urban / Domestic | |
| <input checked="" type="checkbox"/> Sewage Treatment Works | <input type="checkbox"/> Water Treatment Works |
| Industry | |
| <input type="checkbox"/> Agroprocessing | <input type="checkbox"/> Meat Processing |
| <input type="checkbox"/> Fertilisers | <input type="checkbox"/> Manufacturing |
| <input type="checkbox"/> Metal Processing And Finishing | <input type="checkbox"/> Paper And Pulp |
| <input type="checkbox"/> Textile | <input type="checkbox"/> Winery |
| <input type="checkbox"/> Power generation | <input type="checkbox"/> Other (please specify below) |
| Mining | |
| <input type="checkbox"/> Coal | <input type="checkbox"/> Diamond |
| <input type="checkbox"/> Gold | <input type="checkbox"/> Sand-winning |
| <input type="checkbox"/> Platinum | <input type="checkbox"/> Quarrying |
| <input type="checkbox"/> Copper | <input type="checkbox"/> Peat Mining |
| <input type="checkbox"/> Chromium | <input type="checkbox"/> Uranium |
| <input type="checkbox"/> Iron | <input type="checkbox"/> Other (please specify below) |

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable options with an X)

- | | |
|---|-------------------------------------|
| 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) | <input type="checkbox"/> |
| 2.2.2 Wastewater containing >70% water by mass | <input type="checkbox"/> |
| 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) | <input type="checkbox"/> |
| 2.2.4 Wastewater with temperature of >50°C | <input type="checkbox"/> |
| 2.2.5 Wastewater with an oxygen content of <5 mg/l | <input type="checkbox"/> |
| 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m | <input type="checkbox"/> |
| 2.2.7 Wastewater with an EC of <500mS/m | <input checked="" type="checkbox"/> |

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable options with an X)

- | | |
|--|-------------------------------------|
| 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) | <input checked="" type="checkbox"/> |
| 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |

2.4 Describe the activity that generates the waste

Effluent from activated sludge treatment plant situated at Uola processing plant.

2.5 Details of water use

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

When did/will this water use end? (If applicable) (ccyymmdd)

2.5.2 Portion of property/land under irrigation

Total area of land irrigated hectares

2.5.3 Crops under wastewater irrigation

Crop type (e.g. mielies, lucerne)	% of total volume waste/wastewater irrigated per year
N/A - irrigation of landscaped/grassed areas (gardens)	100

2.5.4 Volume of wastewater irrigated (cubic meters)

Total volume of wastewater irrigated per year	14,600
Maximum volume of wastewater irrigated on any given day	43

2.5.5 Monthly irrigation pattern expressed in:

- Cubic meters OR
 Percentage (%) of total volume of wastewater discharged per year OR
 Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly irrigation pattern details:

	Minimum	Average	Maximum
January	<input type="text" value="620"/>	<input type="text" value="1240"/>	<input type="text" value="1333"/>
February	<input type="text" value="560"/>	<input type="text" value="1120"/>	<input type="text" value="1204"/>
March	<input type="text" value="620"/>	<input type="text" value="1240"/>	<input type="text" value="1333"/>
April	<input type="text" value="600"/>	<input type="text" value="1200"/>	<input type="text" value="1290"/>
May	<input type="text" value="620"/>	<input type="text" value="1240"/>	<input type="text" value="1333"/>
June	<input type="text" value="600"/>	<input type="text" value="1200"/>	<input type="text" value="1290"/>
July	<input type="text" value="620"/>	<input type="text" value="1240"/>	<input type="text" value="1333"/>
August	<input type="text" value="620"/>	<input type="text" value="1240"/>	<input type="text" value="1333"/>
September	<input type="text" value="600"/>	<input type="text" value="1200"/>	<input type="text" value="1290"/>
October	<input type="text" value="620"/>	<input type="text" value="1240"/>	<input type="text" value="1333"/>
November	<input type="text" value="600"/>	<input type="text" value="1200"/>	<input type="text" value="1290"/>
December	<input type="text" value="620"/>	<input type="text" value="1240"/>	<input type="text" value="1333"/>

2.5.6 Origin of irrigated waste water

National Water Act - Section 21(g/j) Water Use					
Section 21(?)	Registered*		Volume of water applicable to this waste discharge (m³)	If Registered*	
				Register number	Water Use Number
N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			

2.5.7 Registered Waste Discharge Information

Average irrigated volume (cubic meters)	1,240	Time Interval: <input checked="" type="checkbox"/> Per Month	<input type="checkbox"/> Per Annum
Maximum irrigated volume anticipated (cubic meters)	14,600	Time Interval: <input type="checkbox"/> Per Month	<input checked="" type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Average Irrigated Concentration	For Office Use Only	
		Irrigated Load (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)	7.3		
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)	56		
Chemical oxygen demand (mg/l)			
Chloride (mg/l)	58		
Chromium (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Average Irrigated Concentration	For Office Use Only	
		Irrigated Load (kg)	NPS Load (kg)
Chromium(vi) (mg/l)			
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)	0.05		
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)	64		
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)	121		
Tin (mg/l)			
Total dissolved solids (mg/l)	321		
Total suspended solids (mg/l)	12		
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

2.5.8

Description of management measures			
Capacity for wastewater storage when irrigation is not possible (cubic meters)	22,000 m ³	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is a storm water runoff collection system in place?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is a system for screening of suspended solids in place?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
a) screen mesh size (mm)			
b) number of fat traps (enter 0 if none)			
Is the land properly sited to minimise runoff and ingress of external stormwater?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Effluent irrigated on to the facility/land meets general authorisation standards in terms of disposal volumes		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Effluent irrigated on to the facility/land meets general authorisation standards in terms of concentration of contaminants		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Effluent irrigated meets the licenced standards		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Large areas are deployed with continuous shift of irrigation to enable adequate evaporation of the effluent water		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Irrigation controlled & limited to safe quantities		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Application of effluent follows principles of 'beneficial use'		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of surface water resources

(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where irrigation is taking place
- River / Stream
 - Estuary
 - Wetland
 - Marine
 - Dam
 - Lake
 - Government Water Scheme
 - Other (please specify below)

b) Name / description of the nearest surface water resource:

UNNAMED TRIBUTARY OF LIMPOPO RIVER

c) Distance to the nearest water resource (meters)

120

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where irrigation is taking place
- Spring / Eye
 - Borehole
 - Other (please specify below)
 - Government Water Scheme
 - Boreholes And Windmills On Government Land

b) Name / description of the nearest groundwater resource

OVERLAKTE AQUIFER

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Location of area irrigated with waste or water containing waste

3.2.1 Geographical location for each of the external corner points of the area.

Area/Field No: 1

This Area/Field No. Area in Hectare(s): 1.5

Centre point due to small area.

Latitude S 22° 10' 26.0" or S or S

Longitude E 29° 40' 21.0" or E or E

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S or S or S

Longitude E or E or E

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S or S or S

Longitude E or E or E

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' ,
Longitude E ° ' " or E ° or E ° ' ,
Datum type Cape (Modified Clarke 1880) WGS-84

Area/Field No: This Area/Field No. Area in Hectare(s):

Latitude S ° ' " or S ° or S ° ' ,
Longitude E ° ' " or E ° or E ° ' ,
Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' ,
Longitude E ° ' " or E ° or E ° ' ,
Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' ,
Longitude E ° ' " or E ° or E ° ' ,
Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' ,
Longitude E ° ' " or E ° or E ° ' ,
Datum type Cape (Modified Clarke 1880) WGS-84

Area/Field No: This Area/Field No. Area in Hectare(s):

Latitude S ° ' " or S ° or S ° ' ,
Longitude E ° ' " or E ° or E ° ' ,
Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' ,
Longitude E ° ' " or E ° or E ° ' ,
Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' ,
Longitude E ° ' " or E ° or E ° ' ,
Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' "

Longitude E ° ' " or E ° or E ° ' "

Datum type Cape (Modified Clarke 1880) WGS-84

Area/Field No: This Area/Field No. Area in Hectare(s):

Latitude S ° ' " or S ° or S ° ' "

Longitude E ° ' " or E ° or E ° ' "

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' "

Longitude E ° ' " or E ° or E ° ' "

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' "

Longitude E ° ' " or E ° or E ° ' "

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S ° ' "

Longitude E ° ' " or E ° or E ° ' "

Datum type Cape (Modified Clarke 1880) WGS-84

3.2.2 Drainage Region Details: Quaternary Drainage Region A71L

3.2.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	From:	To:
Bergin Op Zoom 124 MS	T12375/2009	MS	124	RE	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					

4. LIST OF SUPPORTING TECHNICAL INFORMATION

4.1 Confirm that the following forms have been included in this application

- DW901 Yes No
- DW902 Yes No
- DW905 Yes No

4.2 Mark with an X if these documents have been submitted with this application

- Environmental Impact Assessment (EIA)
- Environmental Management Programme (EMPR)
- Standard Environmental Management Programme
- Integrated Water and Waste Management Plan (IWWMP)
- Integrated Water Use Licence Application Report
- Report on Waste Water Quality (solute load, seasonal changes, etc.)
- Report on Industrial Process Generating Waste water
- Geohydrological Report
- Civil Designs
- Contingency Plan for Failures and Malfunctions of System
- Monitoring Programme(s)
- Topographical Map (1:50 000)
- National Water Act (Act No 36 of 1998) – Section 27 Evaluation
- DW760 NWA-Section 21(a)
- DW761 NWA-Section 21(b)
- DW762 NWA-Section 21(b)
- DW763 NWA-Section 21(c)
- DW764 NWA-Section 21(d)
- DW765 NWA-Section 21(e)
- DW766 NWA-Section 21(f)
- DW767 NWA-Section 21(g)
- DW768 NWA-Section 21(i)
- DW780 NWA-Section 21(h)
- DW805 NWA-Section 21(j)
- DW903
- DW904
- Other (specify other documents submitted with this form)
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

5.4.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

5.5 Waste management scheme information

Waste scheme name (if applicable) _____

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name) _____

- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

5.6 Late registration penalty

Is this a late registration? Yes No

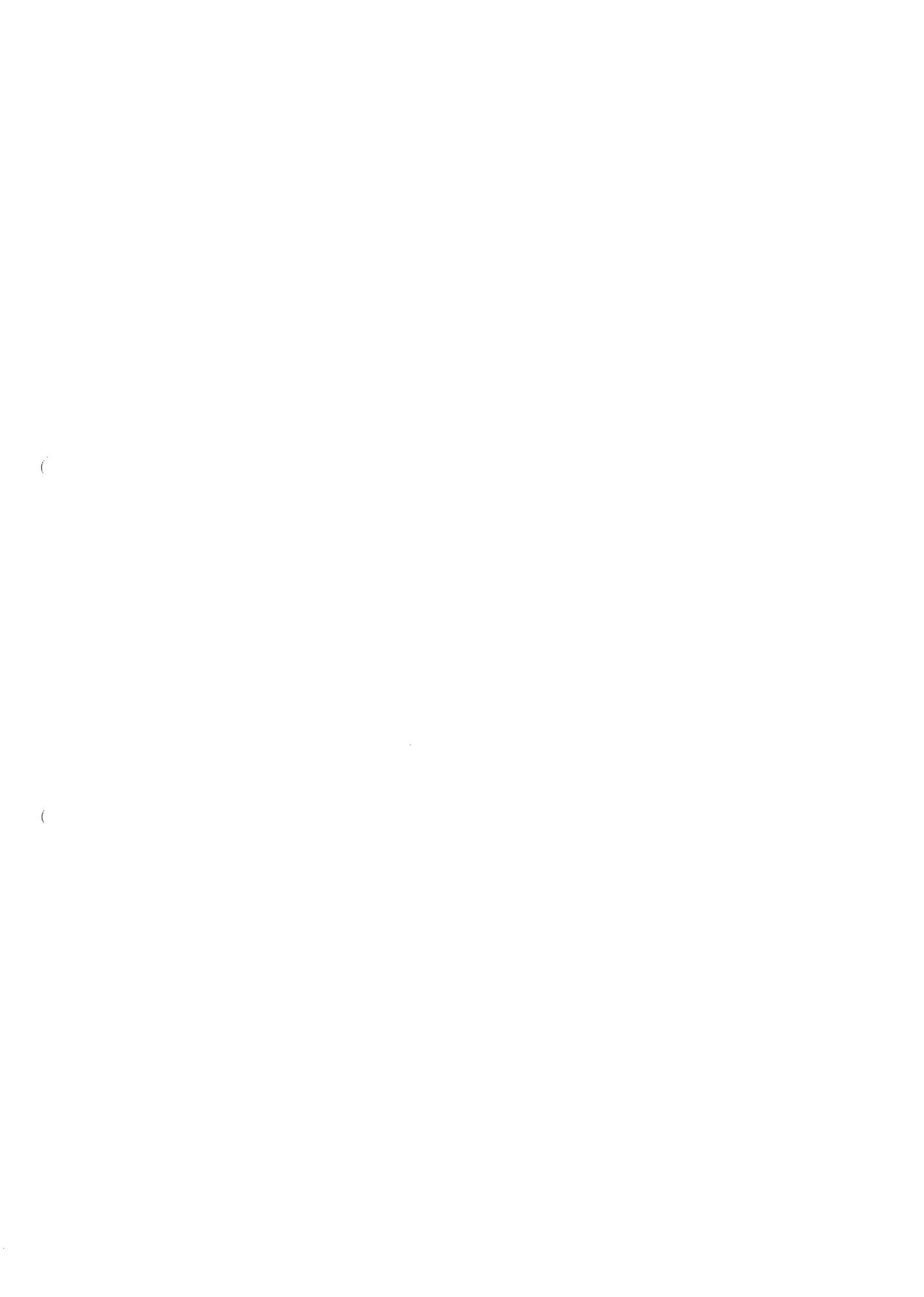
If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty



5.7 Authorisation details

5.7.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act: [E.g. Section 21]		
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.7.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

5.7.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit

Water Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

File number (i.e. Office Hardcopy Register File No)

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

**Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(e)
OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)**

Sections 21(e): engaging in a controlled activity: irrigation of any land with waste or water containing waste generated through any industrial activity or by a waterwork.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 **Indicate the nature of this application:**
 - Licence
 - Registration (only)

- 1.2 **Have you already registered a water use with the Department of Water Affairs and Forestry?**
 - Yes
 - No

Registration number:

Water use number:

- 1.3 **Indicate if Section 21(j) is applicable to this water use application:**

Section 21(j): removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people.

 - Yes
 - No

Note: If Yes was selected, ensure that a DW805 application form has been submitted.

- 1.4 **Do you have a licence, permit or exemption for this waste discharge?**
 (Issued in terms of the National Water Act (Act No. 36 of 1998), Water Act (Act No. 54 of 1956) or the Environmental Conservation Act (Act No. 73 of 1989))
 - Yes
 - No

Licence number:

OR

Permit number:

OR

Exemption reference number:

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)
 Provincial Department (complete 1.9)
 Company, business, partnership or community (complete 1.7)
 Water Services Provider (complete 1.10)
 National Department (complete 1.8)
 Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:

1.7.1 Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the applicant is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the applicant is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the applicant is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable ~~I/we~~ BALDWIN KHOSA (FULL NAME(S))
hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative

Designation of signatory

(011) 785 4578

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

- Agriculture**
 - Aquaculture
 - Irrigation
 - Intensive Animal Husbandry
 - Other (please specify below)
- Urban / Domestic**
 - Sewage Treatment Works
 - Water Treatment Works
- Industry**
 - Agroprocessing
 - Fertilisers
 - Metal Processing And Finishing
 - Textile
 - Power generation
 - Meat Processing
 - Manufacturing
 - Paper And Pulp
 - Winery
 - Other (please specify below)
- Mining**
 - Coal
 - Gold
 - Platinum
 - Copper
 - Chromium
 - Iron
 - Diamond
 - Sand-winning
 - Quarrying
 - Peat Mining
 - Uranium
 - Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable options with an X)

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge)
- 2.2.2 Wastewater containing >70% water by mass
- 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10)
- 2.2.4 Wastewater with temperature of >50°C
- 2.2.5 Wastewater with an oxygen content of <5 mg/l
- 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m
- 2.2.7 Wastewater with an EC of <500mS/m

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable options with an X)

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load)
- 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load)
- 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load)
- 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load)

2.4 Describe the activity that generates the waste

Opencast coal mining.
 Dewatering of opencast pits
 (rainfall into pit / groundwater inflows)

2.5 Details of water use

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

When did/will this water use end? (If applicable) (ccyymmdd)

2.5.2 Portion of property/land under irrigation

Total area of land irrigated hectares

2.5.3 Crops under wastewater irrigation

Crop type (e.g. muelies, lucerne)	% of total volume waste/wastewater irrigated per year
N/A - utilised for dust suppression on haul road / mining area.	± 20%

2.5.4 Volume of wastewater irrigated (cubic meters)

Total volume of wastewater irrigated per year	109,500
Maximum volume of wastewater irrigated on any given day	500

2.5.5 Monthly irrigation pattern expressed in:

- Cubic meters OR
- Percentage (%) of total volume of wastewater discharged per year OR
- Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly irrigation pattern details:

	Minimum	Average	Maximum
January	<input type="text" value="3100"/>	<input type="text" value="9300"/>	<input type="text" value="15500"/>
February	<input type="text" value="2800"/>	<input type="text" value="8400"/>	<input type="text" value="14000"/>
March	<input type="text" value="3100"/>	<input type="text" value="9300"/>	<input type="text" value="15500"/>
April	<input type="text" value="3000"/>	<input type="text" value="9000"/>	<input type="text" value="15000"/>
May	<input type="text" value="3100"/>	<input type="text" value="9300"/>	<input type="text" value="15500"/>
June	<input type="text" value="3000"/>	<input type="text" value="9000"/>	<input type="text" value="15000"/>
July	<input type="text" value="3100"/>	<input type="text" value="9300"/>	<input type="text" value="15500"/>
August	<input type="text" value="3100"/>	<input type="text" value="9300"/>	<input type="text" value="15500"/>
September	<input type="text" value="3000"/>	<input type="text" value="9000"/>	<input type="text" value="15000"/>
October	<input type="text" value="3100"/>	<input type="text" value="9300"/>	<input type="text" value="15500"/>
November	<input type="text" value="3000"/>	<input type="text" value="9000"/>	<input type="text" value="15000"/>
December	<input type="text" value="3100"/>	<input type="text" value="9300"/>	<input type="text" value="15500"/>

2.5.6 Origin of irrigated waste water

National Water Act - Section 21(g/j) Water Use					
Section 21(?)	Registered*		Volume of water applicable to this waste discharge (m³)	If Registered*	
				Register number	Water Use Number
21(j)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	109,500/a.		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			

2.5.7 Registered Waste Discharge Information

Average irrigated volume (cubic meters)	<input type="text" value="9300"/>	Time Interval: <input checked="" type="checkbox"/> Per Month	<input type="checkbox"/> Per Annum
Maximum irrigated volume anticipated (cubic meters)	<input type="text" value="109,500"/>	Time Interval: <input type="checkbox"/> Per Month	<input checked="" type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Average Irrigated Concentration	For Office Use Only	
		Irrigated Load (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)	Neutral		
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)	8000		
Chromium (mg/l)			

NOTE This is the natural background water quality of the secondary aquifer in the area and the poor quality is not as a result of the mining activity.

Continued on next page

Quality Variable And Unit Of Measurement	Average Irrigated Concentration	For Office Use Only	
		Irrigated Load (kg)	NPS Load (kg)
Chromium(vi) (mg/l)			
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)	0.2		
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)	800		
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)	6500		
Sulphate (mg/l)	5100		
Tin (mg/l)			
Total dissolved solids (mg/l)	27000		
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

2.5.8

Description of management measures

Capacity for wastewater storage when irrigation is not possible (cubic meters)	7,200 m ³	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is a storm water runoff collection system in place?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is a system for screening of suspended solids in place?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
a) screen mesh size (mm)			
b) number of fat traps (enter 0 if none)			
Is the land properly sited to minimise runoff and ingress of external stormwater?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Effluent irrigated on to the facility/land meets general authorisation standards in terms of disposal volumes		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Effluent irrigated on to the facility/land meets general authorisation standards in terms of concentration of contaminants		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Effluent irrigated meets the licenced standards		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Large areas are deployed with continuous shift of irrigation to enable adequate evaporation of the effluent water		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Irrigation controlled & limited to safe quantities		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Application of effluent follows principles of "beneficial use"		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of surface water resources

(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where irrigation is taking place
- River / Stream
 - Estuary
 - Wetland
 - Marine
 - Dam
 - Lake
 - Government Water Scheme
 - Other (please specify below)

b) Name / description of the nearest surface water resource:

LIMPOPO RIVER

c) Distance to the nearest water resource (meters)

1100 (at closest point)

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where irrigation is taking place
- Spring / Eye
 - Borehole
 - Other (please specify below)
 - Government Water Scheme
 - Boreholes And Windmills On Government Land

b) Name / description of the nearest groundwater resource

OVERLAKTE AQUIFER

c) Distance to the nearest groundwater resource (meters)

1100 (at closest point)

3.2 Location of area irrigated with waste or water containing waste

3.2.1 Geographical location for each of the external corner points of the area.

Area/Field No:

111

This Area/Field No. Area in Hectare(s):

1111

Latitude S 22° 08' 58.0" or S _____ ° or S _____ °

Longitude E 29° 40' 42.4" or E _____ ° or E _____ °

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S 22° 09' 56.7" or S _____ ° or S _____ °

Longitude E 29° 41' 23.2" or E _____ ° or E _____ °

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S 22° 09' 43.4" or S _____ ° or S _____ °

Longitude E 29° 39' 52.1" or E _____ ° or E _____ °

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S °

Longitude E ° ' " or E ° or E °

Datum type Cape (Modified Clarke 1880) WGS-84

Area/Field No: [][][][] This Area/Field No. Area in Hectare(s): [][][][]

Latitude S ° ' " or S ° or S °

Longitude E ° ' " or E ° or E °

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S °

Longitude E ° ' " or E ° or E °

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S °

Longitude E ° ' " or E ° or E °

Datum type Cape (Modified Clarke 1880) WGS-84

Latitude S ° ' " or S ° or S °

Longitude E ° ' " or E ° or E °

Datum type Cape (Modified Clarke 1880) WGS-84

3.2.2 Drainage Region Details:

Quaternary Drainage Region

A71L

3.2.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property			Unsurveyed property			Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Title Deed Number	Surveyor-General Cadastral Code	Property Number	From:	To:
Overlake	T44946/2009	MS	125					
			3+4					
Overlake	T22619/2009	MS	125					
			S					

4. LIST OF SUPPORTING TECHNICAL INFORMATION

4.1 Confirm that the following forms have been included in this application

- DW901 Yes No
- DW902 Yes No
- DW905 Yes No

4.2 Mark with an X if these documents have been submitted with this application

- Environmental Impact Assessment (EIA)
- Environmental Management Programme (EMPR)
- Standard Environmental Management Programme
- Integrated Water and Waste Management Plan (IWWMP)
- Integrated Water Use Licence Application Report
- Report on Waste Water Quality (solute load, seasonal changes, etc.)
- Report on Industrial Process Generating Waste water
- Geohydrological Report
- Civil Designs
- Contingency Plan for Failures and Malfunctions of System
- Monitoring Programme(s)
- Topographical Map (1:50 000)
- National Water Act (Act No 36 of 1998) – Section 27 Evaluation
- DW760 NWA-Section 21(a)
- DW761 NWA-Section 21(b)
- DW762 NWA-Section 21(b)
- DW763 NWA-Section 21(c)
- DW764 NWA-Section 21(d)
- DW765 NWA-Section 21(e)
- DW766 NWA-Section 21(f)
- DW767 NWA-Section 21(g)
- DW768 NWA-Section 21(i)
- DW780 NWA-Section 21(h)
- DW805 NWA-Section 21(j)
- DW903
- DW904
- Other (specify other documents submitted with this form)
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

5.4.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

5.5 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)

- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

5.6 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

5.7 Authorisation details

5.7.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use

South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act: [E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	

5.7.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

5.7.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit

Water Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date (ccymmdd)

File number (i.e. Office Hardcopy Register File No)

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccymmdd)

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccymmdd)

PART 2 – SECTION 21(g)

1. **OPENCAST DIRTY WATER DAM**
2. **PROCESS DIRTY WATER DAM**
3. **SLURRY FACILITY #1**
4. **SLURRY FACILITY #2**
5. **ROM STOCKPILE**
6. **DE-STONING STOCKPILE**
7. **SECONDARY WASHING STOCKPILE**
8. **PRODUCT STOCKPILE**
9. **DISCARD STOCKPILE**
10. **IN-PIT DISCARD DISPOSAL**

ASSOCIATED FORMS:

1. **DW901 – Refer to PART 1**
2. **DW902 – Refer to PART 1**
3. **DW905**
4. **DW904 – NOT APPLICABLE TO NEW USES (NO ACTUAL DATA)**

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)
- Company, business, partnership or community (complete 1.7)
- National Department (complete 1.8)
- Provincial Department (complete 1.9)
- Water Services Provider (complete 1.10)
- Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:

1.7.1 Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

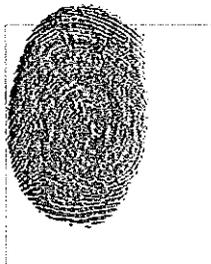
1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/we BALDWIN I CHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company

Designation of signatory

Thumb print

(01) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

- | | |
|---|---|
| Agriculture | |
| <input type="checkbox"/> Aquaculture | <input type="checkbox"/> Intensive Animal Husbandry |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Other (please specify below) |
| Urban / Domestic | |
| <input type="checkbox"/> Sewage Treatment Works | <input type="checkbox"/> Water Treatment Works |
| <input type="checkbox"/> Waste Disposal | |
| Industry | |
| <input type="checkbox"/> Agroprocessing | <input type="checkbox"/> Meat Processing |
| <input type="checkbox"/> Fertilisers | <input type="checkbox"/> Manufacturing |
| <input type="checkbox"/> Metal Processing And Finishing | <input type="checkbox"/> Paper And Pulp |
| <input type="checkbox"/> Textile | <input type="checkbox"/> Winery |
| <input type="checkbox"/> Power Generation | <input type="checkbox"/> Other (please specify below) |
| Mining | |
| <input checked="" type="checkbox"/> Coal | <input type="checkbox"/> Diamond |
| <input type="checkbox"/> Gold | <input type="checkbox"/> Sand-winning |
| <input type="checkbox"/> Platinum | <input type="checkbox"/> Quarrying |
| <input type="checkbox"/> Copper | <input type="checkbox"/> Peat Mining |
| <input type="checkbox"/> Chromium | <input type="checkbox"/> Uranium |
| <input type="checkbox"/> Iron | <input type="checkbox"/> Other (please specify below) |

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

- | | |
|---|-------------------------------------|
| 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) | <input type="checkbox"/> |
| 2.2.2 Wastewater containing >70% water by mass | <input type="checkbox"/> |
| 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) | <input type="checkbox"/> |
| 2.2.4 Wastewater with temperature of >50°C | <input type="checkbox"/> |
| 2.2.5 Wastewater with an oxygen content of <5 mg/l | <input type="checkbox"/> |
| 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m | <input type="checkbox"/> |
| 2.2.7 Wastewater with an EC of <500mS/m | <input checked="" type="checkbox"/> |

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

- | | |
|--|-------------------------------------|
| 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) | <input checked="" type="checkbox"/> |

2.4 Describe the activity that generates the waste

Main activity - opencast coal mining
 Source water include dirty storm water from opencast infrastructure area and dewatering of opencast areas.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

182500 Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

7200 Cubic meters

(1.50 yr 24hr storm)

2.5.4 Monthly discharge pattern expressed in:

Cubic meters

OR

Percentage (%) of total

OR

Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January	3100	7750	15500
February	2800	7000	14000
March	3100	7750	15500
April	3000	7500	15000
May	3100	7750	15500
June	3000	7500	15000
July	3100	7750	15500
August	3100	7750	15500
September	3000	7500	15000
October	3100	7750	15500
November	3000	7500	15000
December	3100	7750	15500

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
21j	<input type="checkbox"/> Yes <input type="checkbox"/> No	109500/a			
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)	109500	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	182500	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

UNKNOWN

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources
(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where discharge is taking place
- River / Stream
 - Estuary
 - Wetland
 - Marine
 - Dam
 - Lake
 - GWS Scheme
 - Other (please specify below)

b) Name / description of the nearest surface water resource:

UNNAMED TRIBUTARY OF LIMPOPO RIVER

c) Distance to the nearest water resource (meters)

120

3.1.2 Description of Groundwater Resources
(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where discharge is taking place
- Spring / Eye
 - Borehole
 - Other (please specify below)
 - GWS Scheme
 - Boreholes And Windmills On Government Land

b) Name / description of the nearest surface water resource

OVERULACTE AQUIFER

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name		Surveyed Property				Unsurveyed property				Property Relationship Date				
		Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:		
Bergen Op Zoom 124 MS		T12375/2009	MS	124	RE									

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- Sewage Sludge
- Industrial Sludge
- Mining Waste
- Hazardous Waste
- Industrial Ash (all industries)
- Power Generation
- Household Refuse
- Farming Waste
- Dry Industrial Waste
- Industrial Liquid
- Other

Specify Other: Dirty stormwater

4.1.2 Approximate maximum volume/tonnage per site per day

500 m³/d

4.1.3 Approximate total tonnage per site per annum

tons
 tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'
 (Refer attached DW905 form)

↳ The water is recycled for use in the process - no cumulative storage.

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

↳ OPENCAST DIRTY WATER DAM

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands	<input type="checkbox"/>				
Ash Dams / Dumps	<input type="checkbox"/>				
Coal Dams	<input type="checkbox"/>				
Composting	<input type="checkbox"/>				
Domestic Waste	<input type="checkbox"/>				
Effluent Dams	<input type="checkbox"/>				
Evaporation Dams/Ponds	<input type="checkbox"/>				
Forced Evaporation	<input type="checkbox"/>				
Maturation Ponds	<input type="checkbox"/>				

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input checked="" type="checkbox"/>	0.4	30	20100301	
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Sill Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant (Specify)	<input type="checkbox"/>				

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
				<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
				<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
				<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
				<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
				<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
<input type="checkbox"/> 0%				<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%	
Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%	
			<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%	
Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%	
			<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%	
Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%	
			<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%	
Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%	
			<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%	

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1.5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1.5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Artificial Wetlands	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|-----|--|---|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from Until (ccyymmdd)

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer? Yes No

6.4.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyymmdd)
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information

6.6.1 Applicant to be billed as:

Water User or Via a WUA/WSP
 Start Date (ccyymmdd)
End Date (ccyymmdd)

6.6.2 Bill incentive charge:

On actual load(s) or Registered load(s)
 Start Date (ccyymmdd)
End Date (ccyymmdd)

6.6.3 Billing Frequency: Annually Bi-annually Monthly

6.6.4 If to be billed via WUA/WSP:

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

6.8 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

- R300.00 OR
- 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit

Water Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

File number (i.e. Office Hardcopy Register File No)

Waste Management Facility Number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

OPENCAST DIRTY WATER DAM

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching Ash-blending Co-disposal
- Other (specify) Storage of dirty water runoff

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be Lined
- b) If lined, the lining system is Clay
- (Mark the applicable option with an X) Composite lining system

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

0.4 hectares

1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	3.8	48	20	meters
b) After rehabilitation	0	0	0	meters
c) Available air space	(Freaboard volume)			
		1720		cubic meters
d) Total volume already used for waste disposal		0		cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor		<input checked="" type="checkbox"/> Estimate	

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area: 60000 m
- Informal residential area: 5000 m
- Industrial Area: 60000 m

b) Buffer zone determination done by Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Latitude S 22° 10' 20.4" or S° or S°

Longitude E 29° 40' 43.3" or E° or E°

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S 22° 10' 18.6" or S° or S°

Longitude E 29° 40' 45.1" or E° or E°

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S 22° 10' 19.6" or S° or S°

Longitude E 29° 40' 46.4" or E° or E°

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S 22° 10' 21.5" or S° or S°

Longitude E 29° 40' 44.6" or E° or E°

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S° or S°

Longitude E° or E°

Datum Type: Cape (Modified Clarke 1880) WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS , WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname: **PRETORIUS**

Initials &/or First Name: **NICO**

Title: **MR** ID No.:

Phone Number: **011 785 4502** Ext:

Fax Number: **086 692 9728** Cellphone: **082 824 0913**

E-mail Address: **NPretorius@coalofafrica.co.za**

Highest Educational Qualification: Grade 8 / Std 6 Grade 10 / Std 8 Matric Diploma Higher Diploma Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- Landfill or Landbuild
- Composting plant
- Encapsulation
- Transfer station
- Storage area
- Other (specify) Dirty water dam
- Recycling facility
- Treatment plant
- Incinerator

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

2.3 Is sufficient cover material on site?

- Yes
- No

2.4 Covering and burning of waste (mark applicable options with an X) N/A

- Daily compaction and covering
- Burning of waste
- Weekly compaction and covering

2.5 Is leachate management system present?

- Yes
- No

2.6 Storm water management (mark the applicable options with an X)

- Upstream cut-off trenches
- Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120l/m²/d at a depth of 30 cm. Yes No

Stormwater and seepage drains Yes No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) Yes No

Side slopes stabilized to minimize erosion Yes No

Rainfall runoff collected into a dirty water storage facility Yes No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility Yes No

For pits, ingress of water is prevented Yes No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) Yes No

Seepage drains in place Yes No

Storm water drains in place & connected to the polluted storm water system Yes No

Effluent in the dam is not of acidic pH Yes No

Dam is covered to prevent contact with oxygen Yes No

Facility does not maintain anaerobic conditions Yes No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) Yes No

Facility has seepage drains Yes No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management Yes No

Any other practice: Upstream silt collection system

Evaporation Dams/Ponds Lined facility (synthetic or clay) Yes No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec Yes No

No evaporate pre-dawn as humidity is high Yes No

Any other practice: _____

Continued on next page

Maturation Ponds

Facility lined (synthetic or clay) Yes No

Facility designed to ensure at least 5 days retention time Yes No

Storm water and seepage collection drains in place Yes No

Any other practice: _____

Waste Water Ponds

Lined facility (synthetic or clay) Yes No

Storm water collection drains in place Yes No

Seepage drains in place Yes No

Any other practice: _____

Open Cast Voids

Diversion of upslope storm water around the void Yes No

Upstream diversion berms or management measures to prevent inflow of water into the void Yes No

Prevention of water flowing into the void by using highball drains where necessary Yes No

Ensure any water within the void is contained Yes No

Any other practice: _____

Oxidation Ponds

Lined facility (synthetic or clay) Yes No

Adequate structures in place to ensure capture of a 1:50 year storm event Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Polluted Stormwater System

Storm water discharged directly to the resource Yes No

Collection system incorporating the plant, raw material stockpiles and waste disposal facilities Yes No

Clean stormwater separated from stormwater draining "dirty" sites or facilities Yes No

Polluted stormwater collected & stored in dams Yes No

Any other practice: Dirty water dam lined (plastic)

Return Water Dams

Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions Yes No

Any other practice: _____

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:			

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented		
Any other practice:			

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

Yes

No

Stormwater collection system in place

Yes

No

Stormwater diversion measures in place

Yes

No

Seepage collection system in place

Yes

No

Adequate structures in place to ensure capture of a 1:50 year storm event

Yes

No

Emergency incident structures in place

Yes

No

Any other practice:

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)
- Company, business, partnership or community (complete 1.7)
- National Department (complete 1.8)
- Provincial Department (complete 1.9)
- Water Services Provider (complete 1.10)
- Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:

1.7.1 Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Baldwin Khosa
Signature
Company Representative
Designation of signatory

Thumb print

1011 785 4518
Contact number during office hours
2009/11/05
Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

- | | |
|---|---|
| Agriculture | |
| <input type="checkbox"/> Aquaculture | <input type="checkbox"/> Intensive Animal Husbandry |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Other (please specify below) |
| Urban / Domestic | |
| <input type="checkbox"/> Sewage Treatment Works | <input type="checkbox"/> Water Treatment Works |
| <input type="checkbox"/> Waste Disposal | |
| Industry | |
| <input type="checkbox"/> Agroprocessing | <input type="checkbox"/> Meat Processing |
| <input type="checkbox"/> Fertilisers | <input type="checkbox"/> Manufacturing |
| <input type="checkbox"/> Metal Processing And Finishing | <input type="checkbox"/> Paper And Pulp |
| <input type="checkbox"/> Textile | <input type="checkbox"/> Winery |
| <input type="checkbox"/> Power Generation | <input type="checkbox"/> Other (please specify below) |
| Mining | |
| <input checked="" type="checkbox"/> Coal | <input type="checkbox"/> Diamond |
| <input type="checkbox"/> Gold | <input type="checkbox"/> Sand-winning |
| <input type="checkbox"/> Platinum | <input type="checkbox"/> Quarrying |
| <input type="checkbox"/> Copper | <input type="checkbox"/> Peat Mining |
| <input type="checkbox"/> Chromium | <input type="checkbox"/> Uranium |
| <input type="checkbox"/> Iron | <input type="checkbox"/> Other (please specify below) |

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

- | | |
|---|-------------------------------------|
| 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) | <input type="checkbox"/> |
| 2.2.2 Wastewater containing >70% water by mass | <input type="checkbox"/> |
| 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) | <input type="checkbox"/> |
| 2.2.4 Wastewater with temperature of >50°C | <input type="checkbox"/> |
| 2.2.5 Wastewater with an oxygen content of <5 mg/l | <input type="checkbox"/> |
| 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m | <input type="checkbox"/> |
| 2.2.7 Wastewater with an EC of <500mS/m | <input checked="" type="checkbox"/> |

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

- | | |
|--|-------------------------------------|
| 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) | <input checked="" type="checkbox"/> |

2.4 Describe the activity that generates the waste

Main activity - coal mining
 Source water include dirty storm water from processing plant infrastructure area.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable) (ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

273750 Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

22000 Cubic meters

(1:50yr 24 hr storm)

2.5.4 Monthly discharge pattern expressed in:

Cubic meters

OR

Percentage (%) of total

OR

Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January	3100	15500	23250
February	2800	14000	21000
March	3100	15500	23250
April	3000	15000	22500
May	3100	15500	23250
June	3000	15000	22500
July	3100	15500	23250
August	3100	15500	23250
September	3000	15000	22500
October	3100	15500	23250
November	3000	15000	22500
December	3100	15500	23250

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	—			
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)	182 500	Time Interval:	<input type="checkbox"/> Per Month	<input checked="" type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	27 3750	Time Interval:	<input type="checkbox"/> Per Month	<input checked="" type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

UNCLE DOWN

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources
(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where discharge is taking place
- River / Stream
 - Estuary
 - Wetland
 - Marine
 - Dam
 - Lake
 - GWS Scheme
 - Other (please specify below)

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

120

3.1.2 Description of Groundwater Resources
(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where discharge is taking place
- Spring / Eye
 - Borehole
 - Other (please specify below)
 - GWS Scheme
 - Boreholes And Windmills On Government Land

b) Name / description of the nearest surface water resource

Overolabte Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen P Zoom 124 MS	T12.375/2009	MS	124	RE							
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- Sewage Sludge
- Industrial Sludge
- Mining Waste
- Hazardous Waste
- Industrial Ash (all industries)
- Power Generation
- Household Refuse
- Farming Waste
- Dry Industrial Waste
- Industrial Liquid
- Other

Specify Other: Dirty stormwater

4.1.2 Approximate maximum volume/tonnage per site per day

750 m³/day

4.1.3 Approximate total tonnage per site per annum

tons

NA tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'
(Refer attached DW905 form)

↳ The water is recycled for use in the process - no cumulative storage.
↳ PROCESS DIRTY WATER DAM.

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coal Dams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Composting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Domestic Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effluent Dams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evaporation Dams/Ponds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forced Evaporation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maturation Ponds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input checked="" type="checkbox"/>	0.7	30	20100301	
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant (Specify)	<input type="checkbox"/>				

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

- DW901 Yes No
- DW902 Yes No
- DW905 Yes No

5.2 Mark with an X if these documents have been submitted with this application

- Environmental Impact Assessment (EIA)
- Environmental Management Programme (EMPR)
- Standard Environmental Management Programme
- Integrated Water and Waste Management Plan (IWWMP)
- Integrated Water Use Licence Application Report
- Report on Waste Water Quality (solute load, seasonal changes, etc.)
- Report on Industrial Process Generating Waste water
- Geohydrological Report
- Civil Designs
- Contingency Plan for Failures and Malfunctions of System
- Monitoring Programme(s)
- Topographical Map (1:50 000)
- National Water Act (Act No 36 of 1998) – Section 27 Evaluation
- DW760 NWA-Section 21(a)
- DW761 NWA-Section 21(b)
- DW762 NWA-Section 21(b)
- DW763 NWA-Section 21(c)
- DW764 NWA-Section 21(d)
- DW765 NWA-Section 21(e)
- DW766 NWA-Section 21(f)
- DW767 NWA-Section 21(g)
- DW768 NWA-Section 21(i)
- DW780 NWA-Section 21(h)
- DW805 NWA-Section 21(j)
- DW903
- DW904
- Other (specify other documents submitted with this form)
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Collection and containment facilities, system captures 1:100 year storm event	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
				<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
Polluted Storm Water System	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|-----|--|---|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- Licence (*"Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".*)
- Permit (*"Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".*)
- Direction (*"Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".*)
- Exemption (*"Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".*)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from Until
(ccyymmdd) (ccyymmdd)

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer? Yes No

6.4.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyymmdd)
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information

6.6.1 Applicant to be billed as:

Water User or Via a WUA/WSP

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 Water User

6.6.2 Bill incentive charge:

On actual load(s) or Registered load(s)

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 On actual load(s)

6.6.3 Billing Frequency: Annually Bi-annually Monthly

6.6.4 If to be billed via WUA/WSP:

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name) _____
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use

South African Act:	[E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act	[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



SUPPLEMENTARY WATER USE INFORMATION
 (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching
- Ash-blending
- Co-disposal
- Other (specify)

Storage of dirty water runoff.

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be Lined
- b) If lined, the lining system is Clay
- (Mark the applicable option with an X) Composite lining system

- 1.7 Total area of 'property' on which waste is disposed 2078 hectares
- 1.8 Area of actual waste body ("footprint" area) 0.7 hectares
- 1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	4.1	142	52	meters
b) After rehabilitation	0	0	0	meters
c) Available air space	(Freeboard volume)		5900	cubic meters
d) Total volume already used for waste disposal			0	cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor		<input checked="" type="checkbox"/> Estimate	

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area 60000 m
- Informal residential area 5000 m
- Industrial Area 60000 m

b) Buffer zone determination done by Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Latitude	S 22° 10' 17.9"	or	S	°	'	"	or	S	°	'	"			
Longitude	E 29° 40' 24.0"	or	E	°	'	"	or	E	°	'	"			
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														
Latitude	S 22° 10' 18.5"	or	S	°	'	"	or	S	°	'	"			
Longitude	E 29° 40' 28.9"	or	E	°	'	"	or	E	°	'	"			
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														
Latitude	S 22° 10' 16.8"	or	S	°	'	"	or	S	°	'	"			
Longitude	E 29° 40' 29.1"	or	E	°	'	"	or	E	°	'	"			
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														
Latitude	S 22° 10' 16.2"	or	S	°	'	"	or	S	°	'	"			
Longitude	E 29° 40' 24.2"	or	E	°	'	"	or	E	°	'	"			
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														
Latitude	S	°	'	"	or	S	°	'	"	or	S	°	'	"
Longitude	E	°	'	"	or	E	°	'	"	or	E	°	'	"
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														

1.11.2 Drainage Region Details: Quaternary Drainage Region A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS , WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname: **PRETORIUS**

Initials &/or First Name: **NICO**

Title: **MR** ID No.:

Phone Number: **011 785 4502** Ext:

Fax Number: **086 692 9728** Cellphone: **082 824 0913**

E-mail Address: **NPretorius@coalofafrica.co.za**

Highest Educational Qualification: Grade 8 / Std 6 Grade 10 / Std 8 Matric
 Diploma Higher Diploma Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- Landfill or Landbuild
- Composting plant
- Encapsulation
- Transfer station
- Storage area
- Other (specify)
- Recycling facility
- Treatment plant
- Incinerator

Dirty water dam

2.2 Length of time of the operation Start Date (ccyymmdd)

2	0	1	0	0	3	0	1
---	---	---	---	---	---	---	---

 End Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

2.3 Is sufficient cover material on site? Yes No

2.4 Covering and burning of waste (mark applicable options with an X) *N/A*

- Daily compaction and covering
- Burning of waste
- Weekly compaction and covering

2.5 Is leachate management system present? Yes No

2.6 Storm water management (mark the applicable options with an X)

- Upstream cut-off trenches
- Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands	Facility is generally lined (clay liners typically) and are designed to receive 120l/m ² /d at a depth of 30 cm.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater and seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
Ash Dams/Dumps	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Side slopes stabilized to minimize erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		
Coal Dams	Lined facility (synthetic or clay liners)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place & connected to the polluted storm water system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Effluent in the dam is not of acidic pH	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Dam is covered to prevent contact with oxygen	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility does not maintain anaerobic conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		
Effluent Dams	Lined facility (synthetic or clay)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility has seepage drains	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Splitting of facility into 2 separate compartments for the purposes of cleaning and management	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Any other practice:	<u>Upstream silt collection system.</u>	
Evaporation Dams/Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		
Forced Evaporation	Evaporation only with wind speeds less than 2m/sec	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	No evaporate pre-dawn as humidity is high	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		

Continued on next page

Maturation Ponds

Facility lined (synthetic or clay) Yes No

Facility designed to ensure at least 5 days retention time Yes No

Storm water and seepage collection drains in place Yes No

Any other practice: _____

Waste Water Ponds

Lined facility (synthetic or clay) Yes No

Storm water collection drains in place Yes No

Seepage drains in place Yes No

Any other practice: _____

Open Cast Voids

Diversion of upslope storm water around the void Yes No

Upstream diversion berms or management measures to prevent inflow of water into the void Yes No

Prevention of water flowing into the void by using highball drains where necessary Yes No

Ensure any water within the void is contained Yes No

Any other practice: _____

Oxidation Ponds

Lined facility (synthetic or clay) Yes No

Adequate structures in place to ensure capture of a 1:50 year storm event Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Polluted Stormwater System

Storm water discharged directly to the resource Yes No

Collection system incorporating the plant, raw material stockpiles and waste disposal facilities Yes No

Clean stormwater separated from stormwater draining "dirty" sites or facilities Yes No

Polluted stormwater collected & stored in dams Yes No

Any other practice: Dirty water dam lined (plastic)

Return Water Dams

Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions Yes No

Any other practice: _____

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
For pits, ingress of water is prevented			
Any other practice: _____			

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

Yes

No

Stormwater collection system in place

Yes

No

Stormwater diversion measures in place

Yes

No

Seepage collection system in place

Yes

No

Adequate structures in place to ensure capture of a 1:50 year storm event

Yes

No

Emergency incident structures in place

Yes

No

Any other practice:

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)
- Company, business, partnership or community (complete 1.7)
- National Department (complete 1.8)
- Provincial Department (complete 1.9)
- Water Services Provider (complete 1.10)
- Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:

1.7.1 Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

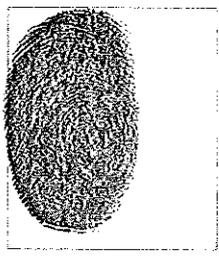
1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Baldwin Khosa
Signature
Company Representative
Designation of signatory



Thumb print

(011) 785 4518
Contact number during office hours
2009/11/05
Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- Aquaculture
- Irrigation

- Intensive Animal Husbandry
- Other (please specify below)

Urban / Domestic

- Sewage Treatment Works
- Waste Disposal

- Water Treatment Works

Industry

- Agroprocessing
- Fertilisers
- Metal Processing And Finishing
- Textile
- Power Generation

- Meat Processing
- Manufacturing
- Paper And Pulp
- Winery
- Other (please specify below)

Mining

- Coal
- Gold
- Platinum
- Copper
- Chromium
- Iron

- Diamond
- Sand-winning
- Quarrying
- Peat Mining
- Uranium
- Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge)
- 2.2.2 Wastewater containing >70% water by mass
- 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10)
- 2.2.4 Wastewater with temperature of >50°C
- 2.2.5 Wastewater with an oxygen content of <5 mg/l
- 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m
- 2.2.7 Wastewater with an EC of <500mS/m

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load)
- 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load)
- 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load)
- 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load)

2.4 Describe the activity that generates the waste

Coal mining. Effluent from coal beneficiation plant.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable) (ccyymmdd)

20110101

2.5.2 The total volume of waste / waste water discharged per year:

580000

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

1900

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Cubic meters

OR

Percentage (%) of total

OR

Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

UNRECORDED

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

* Note

Average disposal volume (cubic meters)	580,000	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	125,000	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

UNKNOWN

Note: The total volume of 580,000m³ includes the dilution water which will be recovered for reuse. The facility capacity is only 125,000m³ for solid portion and will be used for approx. 6-8 months.

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	Date From:	Date To:
Bergen Op Zoom	T12375/2009	W15	124	RE							
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input checked="" type="checkbox"/>	3.6	<1	20100301	20110101
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant (Specify)	<input type="checkbox"/>				

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

- DW901 Yes No
- DW902 Yes No
- DW905 Yes No

5.2 Mark with an X if these documents have been submitted with this application

- Environmental Impact Assessment (EIA)
- Environmental Management Programme (EMPR)
- Standard Environmental Management Programme
- Integrated Water and Waste Management Plan (IWWMP)
- Integrated Water Use Licence Application Report
- Report on Waste Water Quality (solute load, seasonal changes, etc.)
- Report on Industrial Process Generating Waste water
- Geohydrological Report
- Civil Designs
- Contingency Plan for Failures and Malfunctions of System
- Monitoring Programme(s)
- Topographical Map (1:50 000)
- National Water Act (Act No 36 of 1998) – Section 27 Evaluation
- DW760 NWA-Section 21(a)
- DW761 NWA-Section 21(b)
- DW762 NWA-Section 21(b)
- DW763 NWA-Section 21(c)
- DW764 NWA-Section 21(d)
- DW765 NWA-Section 21(e)
- DW766 NWA-Section 21(f)
- DW767 NWA-Section 21(g)
- DW768 NWA-Section 21(i)
- DW780 NWA-Section 21(h)
- DW805 NWA-Section 21(j)
- DW903
- DW904
- Other (specify other documents submitted with this form)
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
Waste Generating Sector	Best practice leading to zero impact				Standard/minimum requirements	Poor practice	
Mining	Slimes/Tailings Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Artificial Wetlands	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
			Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|-----|--|---|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from Until (ccyymmdd)

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer? Yes No

6.4.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyymmdd)
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information

6.6.1 Applicant to be billed as:

Water User or Via a WUA/WSP

Start Date (ccyymmdd)		End Date (ccyymmdd)
	<input type="text"/>	<input type="text"/>

 Water User

6.6.2 Bill incentive charge:

On actual load(s) or Registered load(s)

Start Date (ccyymmdd)		End Date (ccyymmdd)
	<input type="text"/>	<input type="text"/>

 On actual load(s)

6.6.3 Billing Frequency: Annually Bi-annually Monthly

6.6.4 If to be billed via WUA/WSP:

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name) _____

- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

6.8 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use

South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd) <input style="width: 100%;" type="text"/>	Government Notice No. <input style="width: 100%;" type="text"/>
Date To (ccyymmdd) <input style="width: 100%;" type="text"/>	Government Notice Date (ccyymmdd) <input style="width: 100%;" type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input style="width: 100%;" type="text"/>	Government Notice No. <input style="width: 100%;" type="text"/>
Date To (ccyymmdd) <input style="width: 100%;" type="text"/>	Government Notice Date (ccyymmdd) <input style="width: 100%;" type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input style="width: 100%;" type="text"/>	Government Notice No. <input style="width: 100%;" type="text"/>
Date To (ccyymmdd) <input style="width: 100%;" type="text"/>	Government Notice Date (ccyymmdd) <input style="width: 100%;" type="text"/>
Applicable Section Of The General Authorisation	

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching
- Ash-blending
- Co-disposal
- Other (specify) Slurry disposal

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be Lined
- b) If lined, the lining system is Clay
- (Mark the applicable option with an X) Composite lining system

- 1.7 Total area of 'property' on which waste is disposed 2078 hectares
- 1.8 Area of actual waste body ("footprint" area) 3.6 hectares
- 1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	4.3	221	163	meters
b) After rehabilitation	0	0	0	meters
c) Available air space (Freeboard)		32400		cubic meters
d) Total volume already used for waste disposal		0		cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor		<input checked="" type="checkbox"/> Estimate	

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area 60000 m
- Informal residential area 5000 m
- Industrial Area 60000 m

b) Buffer zone determination done by Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Latitude	S 22° 10' 27.6"	or	S	°	'	"	or	S	°	'	"			
Longitude	E 29° 40' 19.3"	or	E	°	'	"	or	E	°	'	"			
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														
Latitude	S 22° 10' 27.6"	or	S	°	'	"	or	S	°	'	"			
Longitude	E 29° 40' 13.6"	or	E	°	'	"	or	E	°	'	"			
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														
Latitude	S 22° 10' 34.8"	or	S	°	'	"	or	S	°	'	"			
Longitude	E 29° 40' 13.7"	or	E	°	'	"	or	E	°	'	"			
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														
Latitude	S 22° 10' 34.8"	or	S	°	'	"	or	S	°	'	"			
Longitude	E 29° 40' 19.4"	or	E	°	'	"	or	E	°	'	"			
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														
Latitude	S	°	'	"	or	S	°	'	"	or	S	°	'	"
Longitude	E	°	'	"	or	E	°	'	"	or	E	°	'	"
Datum Type: <input type="checkbox"/> Cape (Modified Clarke 1880) <input type="checkbox"/> WGS-84														

1.11.2 Drainage Region Details: Quaternary Drainage Region A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname: **PRETORIUS**

Initials &/or First Name: **NICO**

Title: **MR** ID No.:

Phone Number: **011 785 4502** Ext:

Fax Number: **086 692 9728** Cellphone: **082 824 0913**

E-mail Address: **NPretorius@coalofafrika.co.za**

Highest Educational Qualification: Grade 8 / Std 6 Grade 10 / Std 8 Matric
 Diploma Higher Diploma Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- Landfill or Landbuild Transfer station Recycling facility Incinerator
 Composting plant Storage area Treatment plant
 Encapsulation Other (specify)

Slurry Facility

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

20150101

2.3 Is sufficient cover material on site?

- Yes No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

- Daily compaction and covering Weekly compaction and covering
 Burning of waste

2.5 Is leachate management system present?

- Yes No

2.6 Storm water management (mark the applicable options with an X)

- Upstream cut-off trenches Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands	Facility is generally lined (clay liners typically) and are designed to receive 120l/m ² /d at a depth of 30 cm.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater and seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Ash Dams/Dumps	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Side slopes stabilized to minimize erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		
Coal Dams	Lined facility (synthetic or clay liners)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place & connected to the polluted storm water system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Effluent in the dam is not of acidic pH	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Dam is covered to prevent contact with oxygen	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility does not maintain anaerobic conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		
Effluent Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility has seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Splitting of facility into 2 separate compartments for the purposes of cleaning and management	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Evaporation Dams/Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Forced Evaporation	Evaporation only with wind speeds less than 2m/sec	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	No evaporate pre-dawn as humidity is high	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Maturation Ponds

Facility lined (synthetic or clay) Yes No

Facility designed to ensure at least 5 days retention time Yes No

Storm water and seepage collection drains in place Yes No

Any other practice: _____

Waste Water Ponds

Lined facility (synthetic or clay) Yes No

Storm water collection drains in place Yes No

Seepage drains in place Yes No

Any other practice: _____

Open Cast Voids

Diversion of upslope storm water around the void Yes No

Upstream diversion berms or management measures to prevent inflow of water into the void Yes No

Prevention of water flowing into the void by using highball drains where necessary Yes No

Ensure any water within the void is contained Yes No

Any other practice: _____

Oxidation Ponds

Lined facility (synthetic or clay) Yes No

Adequate structures in place to ensure capture of a 1:50 year storm event Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Polluted Stormwater System

Storm water discharged directly to the resource Yes No

Collection system incorporating the plant, raw material stockpiles and waste disposal facilities Yes No

Clean stormwater separated from stormwater draining "dirty" sites or facilities Yes No

Polluted stormwater collected & stored in dams Yes No

Any other practice: _____

Return Water Dams

Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions Yes No

Any other practice: _____

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Separation of clean & dirty water	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Will be reclaimed.

Full HDPE/PVC lining of bottom and side slopes.

Floating barge pumps will be used to recover water

Continued on next page

Sludge Drying Beds

Facility is lined (synthetic or clay) Yes No

Seepage drains in place Yes No

Storm water drains in place Yes No

Moisture reduction of sludge Yes No

Incorporation of sludge into soil Yes No

Leachate management system in place Yes No

Mixing of high moisture content or liquid waste with dry waste Yes No

Any other practice: _____

Sludge Ponds/Lagoons

Facility is lined (synthetic or clay) Yes No

Seepage drains in place Yes No

Storm water drains in place Yes No

Capacity to handle the 1:50 year storm event Yes No

Any other practice: _____

Waste Rock Dump

Stabilisation of side slopes to minimise erosion Yes No

Rainfall runoff collected into a dirty water Yes No

Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump Yes No

Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility Yes No

Any other practice: _____

Waste Storage

Lined facility (synthetic or clay) Yes No

Leachate management system in place Yes No

Leachate detection layer in place Yes No

Leachate collection layer in place Yes No

Seepage drains in place Yes No

Stormwater drains in place & connected to the polluted stormwater system Yes No

For pits, ingress of water is prevented

Any other practice: _____

Continued on next page

**Waste Treatment
Plant**

- | | | |
|---|------------------------------|-----------------------------|
| Capacity to handle the 1:50 year storm event | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Stormwater collection system in place | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Stormwater diversion measures in place | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Seepage collection system in place | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Adequate structures in place to ensure capture of a 1:50 year storm event | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Emergency incident structures in place | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Any other practice: | | |
-

Water Quality Management Assessment:

Surname

[Grid for Surname]

Initials

[Grid for Initials]

Position / Rank

[Grid for Position / Rank]

Signature

[Signature box]

Date

[Grid for Date]

File number (i.e. Office Hardcopy Register File No)

[Grid for File number]

Waste Management Facility Number

[Grid for Waste Management Facility Number]

Water Use Register Number

[Grid for Water Use Register Number]

Received by:

Surname

[Grid for Surname]

Initials

[Grid for Initials]

Position / Rank

[Grid for Position / Rank]

Signature

[Signature box]

Date

[Grid for Date]

Captured on NRWU database

Captured by:

Surname

[Grid for Surname]

Initials

[Grid for Initials]

Signature

[Signature box]

Quality Assurance Executed by:

Surname

[Grid for Surname]

Position / Rank

[Grid for Position / Rank]

Signature

[Signature box]

Date

[Grid for Date]

Date stamp of receiving office

[Large dashed box for date stamp]

Declaration by applicant or waste discharger

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Baldwin Khosa

Signature

Company Representative

Designation of signatory

Thumb print

(011) 985 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- Aquaculture
- Irrigation

- Intensive Animal Husbandry
- Other (please specify below)

Urban / Domestic

- Sewage Treatment Works
- Waste Disposal

- Water Treatment Works

Industry

- Agroprocessing
- Fertilisers
- Metal Processing And Finishing
- Textile
- Power Generation

- Meat Processing
- Manufacturing
- Paper And Pulp
- Winery
- Other (please specify below)

Mining

- Coal
- Gold
- Platinum
- Copper
- Chromium
- Iron

- Diamond
- Sand-winning
- Quarrying
- Peat Mining
- Uranium
- Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

N/A

(Mark the applicable option(s) with an X)

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge)
- 2.2.2 Wastewater containing >70% water by mass
- 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10)
- 2.2.4 Wastewater with temperature of >50°C
- 2.2.5 Wastewater with an oxygen content of <5 mg/l
- 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m
- 2.2.7 Wastewater with an EC of <500mS/m

2.3 Which of the following describes the composition of the wastewater?

N/A

(Mark the applicable option(s) with an X)

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load)
- 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load)
- 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load)
- 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load)

2.4 Describe the activity that generates the waste

Run-off - mine stockpile area.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

N/A

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

4150

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

Cubic meters

OR

Percentage (%) of total

OR

Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

The maximum capacity of the stockpile area is 4150 m³, and will be routinely filled and emptied within 24 hrs. No cumulative capacity required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	
	Waste Management Facility Name				
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

N/A

Average disposal volume (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

N/A

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources
(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where discharge is taking place
- | | |
|--|---|
| <input checked="" type="checkbox"/> River / Stream | <input type="checkbox"/> Dam |
| <input type="checkbox"/> Estuary | <input type="checkbox"/> Lake |
| <input type="checkbox"/> Wetland | <input type="checkbox"/> GWS Scheme |
| <input type="checkbox"/> Marine | <input type="checkbox"/> Other (please specify below) |

b) Name / description of the nearest surface water resource:
Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters) | | | 300

3.1.2 Description of Groundwater Resources
(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where discharge is taking place
- | | |
|---|---|
| <input type="checkbox"/> Spring / Eye | <input type="checkbox"/> GWS Scheme |
| <input checked="" type="checkbox"/> Borehole | <input type="checkbox"/> Boreholes And Windmills On Government Land |
| <input type="checkbox"/> Other (please specify below) | |

b) Name / description of the nearest surface water resource:
Overlakte Aquifer

c) Distance to the nearest groundwater resource (meters) | | | 5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen of Zoom	T12375/2008		MS								
			124								
				RE							

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- Sewage Sludge
- Industrial Sludge
- Mining Waste
- Hazardous Waste
- Industrial Ash (all industries)
- Power Generation
- Household Refuse
- Farming Waste
- Dry Industrial Waste
- Industrial Liquid
- Other

Specify Other:

Stockpile

4.1.2 Approximate maximum volume/tonnage per site per day

4150 m³

4.1.3 Approximate total tonnage per site per annum

--	--	--	--	--	--	--	--	--	--

tons

--	--	--	--	--	--	--	--	--	--

tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

ROM Stockpile.

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>				
Coal Dams	<input type="checkbox"/>				
Composting	<input type="checkbox"/>				
Domestic Waste	<input type="checkbox"/>				
Effluent Dams	<input type="checkbox"/>				
Evaporation Dams/Ponds	<input type="checkbox"/>				
Forced Evaporation	<input type="checkbox"/>				
Maturation Ponds	<input type="checkbox"/>				

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant (Specify)	<input checked="" type="checkbox"/>	0.4	30	20100301	
		↳ Stockpile area			

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

- DW901 Yes No
- DW902 Yes No
- DW905 Yes No

5.2 Mark with an X if these documents have been submitted with this application

- Environmental Impact Assessment (EIA)
- Environmental Management Programme (EMPR)
- Standard Environmental Management Programme
- Integrated Water and Waste Management Plan (IWWMP)
- Integrated Water Use Licence Application Report
- Report on Waste Water Quality (solute load, seasonal changes, etc.)
- Report on Industrial Process Generating Waste water
- Geohydrological Report
- Civil Designs
- Contingency Plan for Failures and Malfunctions of System
- Monitoring Programme(s)
- Topographical Map (1:50 000)
- National Water Act (Act No 36 of 1998) – Section 27 Evaluation
- DW760 NWA-Section 21(a)
- DW761 NWA-Section 21(b)
- DW762 NWA-Section 21(b)
- DW763 NWA-Section 21(c)
- DW764 NWA-Section 21(d)
- DW765 NWA-Section 21(e)
- DW766 NWA-Section 21(f)
- DW767 NWA-Section 21(g)
- DW768 NWA-Section 21(i)
- DW780 NWA-Section 21(h)
- DW805 NWA-Section 21(j)
- DW903
- DW904
- Other (specify other documents submitted with this form)
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
Waste Generating Sector	Waste Disposal Site Type			Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
			Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
				Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
Polluted Storm Water System		Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1,2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
			Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
				Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System			Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %
				Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd) Until (ccyymmdd)

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer? Yes No

6.4.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyymmdd)
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information

6.6.1 Applicant to be billed as:

Water User or Via a WUA/WSP

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 Water User

6.6.2 Bill Incentive charge:

On actual load(s) or Registered load(s)

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 On actual load(s)

6.6.3 Billing Frequency: Annually Bi-annually Monthly

6.6.4 If to be billed via WUA/WSP:

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name) _____
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

- R300.00 OR
- 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use

South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching Ash-blending Co-disposal
- Other (specify) Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be Lined
- b) If lined, the lining system is Clay (compacted earth + clay)
- (Mark the applicable option with an X) Composite lining system

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

0.4 hectares

1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	20	62.3	25.1	meters
b) After rehabilitation	0	0	0	meters
c) Available air space		N/A		cubic meters
d) Total volume already used for waste disposal		N/A		cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor <input checked="" type="checkbox"/> Estimate			

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area: 60000 m
- Informal residential area: 5000 m
- Industrial Area: 60000 m

b) Buffer zone determination done by

Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point only due to small size.

Latitude S 22° 10' 23.0" or S . . . or S . . .

Longitude E 29° 40' 04.0" or E . . . or E . . .

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S . . . or S . . . or S . . .

Longitude E . . . or E . . . or E . . .

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S . . . or S . . . or S . . .

Longitude E . . . or E . . . or E . . .

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S . . . or S . . . or S . . .

Longitude E . . . or E . . . or E . . .

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S . . . or S . . . or S . . .

Longitude E . . . or E . . . or E . . .

Datum Type: Cape (Modified Clarke 1880) WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS , WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname: **PRETORIUS**

Initials &/or First Name: **NICO**

Title: **MR** ID No.:

Phone Number: **011 785 4502** Ext:

Fax Number: **086 692 9728** Cellphone: **082 824 0913**

E-mail Address: **NPretorius@coalofafrica.co.za**

Highest Educational Qualification:

Grade 8 / Std 6 Grade 10 / Std 8 Matric

Diploma Higher Diploma Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- Landfill or Landbuild
- Composting plant
- Encapsulation
- Transfer station
- Storage area
- Other (specify)
- Recycling facility
- Treatment plant
- Incinerator

Steep pile area

2.2 Length of time of the operation

Start Date (ccyymmdd)

2	0	1	0	3	0	1
---	---	---	---	---	---	---

 End Date (ccyymmdd)

--	--	--	--	--	--	--

2.3 Is sufficient cover material on site?

- Yes
- No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

- Daily compaction and covering
- Burning of waste
- Weekly compaction and covering

2.5 Is leachate management system present?

- Yes
- No

2.6 Storm water management (mark the applicable options with an X)

- Upstream cut-off trenches
- Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY **NOT LISTED**

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120l/m²/d at a depth of 30 cm. Yes No

Stormwater and seepage drains Yes No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) Yes No

Side slopes stabilized to minimize erosion Yes No

Rainfall runoff collected into a dirty water storage facility Yes No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility Yes No

For pits, ingress of water is prevented Yes No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) Yes No

Seepage drains in place Yes No

Storm water drains in place & connected to the polluted storm water system Yes No

Effluent in the dam is not of acidic pH Yes No

Dam is covered to prevent contact with oxygen Yes No

Facility does not maintain anaerobic conditions Yes No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) Yes No

Facility has seepage drains Yes No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management Yes No

Any other practice: _____

Evaporation Dams/Ponds Lined facility (synthetic or clay) Yes No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec Yes No

No evaporate pre-dawn as humidity is high Yes No

Any other practice: _____

Continued on next page

Maturation Ponds

Facility lined (synthetic or clay) Yes No

Facility designed to ensure at least 5 days retention time Yes No

Storm water and seepage collection drains in place Yes No

Any other practice: _____

Waste Water Ponds

Lined facility (synthetic or clay) Yes No

Storm water collection drains in place Yes No

Seepage drains in place Yes No

Any other practice: _____

Open Cast Voids

Diversion of upslope storm water around the void Yes No

Upstream diversion berms or management measures to prevent inflow of water into the void Yes No

Prevention of water flowing into the void by using highball drains where necessary Yes No

Ensure any water within the void is contained Yes No

Any other practice: _____

Oxidation Ponds

Lined facility (synthetic or clay) Yes No

Adequate structures in place to ensure capture of a 1:50 year storm event Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Polluted Stormwater System

Storm water discharged directly to the resource Yes No

Collection system incorporating the plant, raw material stockpiles and waste disposal facilities Yes No

Clean stormwater separated from stormwater draining "dirty" sites or facilities Yes No

Polluted stormwater collected & stored in dams Yes No

Any other practice: _____

Return Water Dams

Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions Yes No

Any other practice: _____

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice: _____

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice: _____

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice: _____

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No

For pits, ingress of water is prevented

Any other practice: _____

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

Yes

No

Stormwater collection system in place

Yes

No

Stormwater diversion measures in place

Yes

No

Seepage collection system in place

Yes

No

Adequate structures in place to ensure capture of a 1:50 year storm event

Yes

No

Emergency incident structures in place

Yes

No

Any other practice:

Water Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date

File number (i.e. Office Hardcopy Register File No)

Waste Management Facility Number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)

 Provincial Department (complete 1.9)
- Company, business, partnership or community (complete 1.7)

 Water Services Provider (complete 1.10)
- National Department (complete 1.8)

 Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable from BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 1518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

- | | | |
|---|--|---|
| Agriculture | | <input type="checkbox"/> Intensive Animal Husbandry |
| <input type="checkbox"/> Aquaculture | | <input type="checkbox"/> Other (please specify below) |
| <input type="checkbox"/> Irrigation | | |
| <hr/> | | |
| Urban / Domestic | | <input type="checkbox"/> Water Treatment Works |
| <input type="checkbox"/> Sewage Treatment Works | | |
| <input type="checkbox"/> Waste Disposal | | |
| <hr/> | | |
| Industry | | <input type="checkbox"/> Meat Processing |
| <input type="checkbox"/> Agroprocessing | | <input type="checkbox"/> Manufacturing |
| <input type="checkbox"/> Fertilisers | | <input type="checkbox"/> Paper And Pulp |
| <input type="checkbox"/> Metal Processing And Finishing | | <input type="checkbox"/> Winery |
| <input type="checkbox"/> Textile | | <input type="checkbox"/> Other (please specify below) |
| <input type="checkbox"/> Power Generation | | |
| <hr/> | | |
| Mining | | <input type="checkbox"/> Diamond |
| <input checked="" type="checkbox"/> Coal | | <input type="checkbox"/> Sand-winning |
| <input type="checkbox"/> Gold | | <input type="checkbox"/> Quarrying |
| <input type="checkbox"/> Platinum | | <input type="checkbox"/> Peat Mining |
| <input type="checkbox"/> Copper | | <input type="checkbox"/> Uranium |
| <input type="checkbox"/> Chromium | | <input type="checkbox"/> Other (please specify below) |
| <input type="checkbox"/> Iron | | |

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- | | |
|---|--------------------------|
| 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) | <input type="checkbox"/> |
| 2.2.2 Wastewater containing >70% water by mass | <input type="checkbox"/> |
| 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) | <input type="checkbox"/> |
| 2.2.4 Wastewater with temperature of >50°C | <input type="checkbox"/> |
| 2.2.5 Wastewater with an oxygen content of <5 mg/l | <input type="checkbox"/> |
| 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m | <input type="checkbox"/> |
| 2.2.7 Wastewater with an EC of <500mS/m | <input type="checkbox"/> |

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- | | |
|--|--------------------------|
| 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |

2.4 Describe the activity that generates the waste

Destoning stockpile area

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable) (ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

N/A

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

2230

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

Cubic meters

OR

Percentage (%) of total

OR

Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

N/A

The maximum capacity of the stockpile area is 2230 m³ and will be routinely filled and emptied within 24 hrs. No cumulative capacity is required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

N/A

Average disposal volume (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources
(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where discharge is taking place
- | | |
|--|---|
| <input checked="" type="checkbox"/> River / Stream | <input type="checkbox"/> Dam |
| <input type="checkbox"/> Estuary | <input type="checkbox"/> Lake |
| <input type="checkbox"/> Wetland | <input type="checkbox"/> GWS Scheme |
| <input type="checkbox"/> Marine | <input type="checkbox"/> Other (please specify below) |

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

300

3.1.2 Description of Groundwater Resources
(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where discharge is taking place
- | | |
|---|---|
| <input type="checkbox"/> Spring / Eye | <input type="checkbox"/> GWS Scheme |
| <input checked="" type="checkbox"/> Borehole | <input type="checkbox"/> Boreholes And Windmills On Government Land |
| <input type="checkbox"/> Other (please specify below) | |

b) Name / description of the nearest surface water resource

Overlakte Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen Op Zoom	T12375/2009		124								

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant	<input checked="" type="checkbox"/>	0.2	30	20100301	
(Specify)	Stockpile.				

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1.5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Artificial Wetlands	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from Until (ccyymmdd)

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer? Yes No

6.4.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyymmdd)
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information

6.6.1 Applicant to be billed as:

Water User or Via a WUA/WSP Water User
 Start Date (ccyymmdd) End Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.6.2 Bill incentive charge:

On actual load(s) or Registered load(s) On actual load(s)
 Start Date (ccyymmdd) End Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.6.3 Billing Frequency: Annually Bi-annually Monthly

6.6.4 If to be billed via WUA/WSP:

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

--	--	--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--	--	--

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)

- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

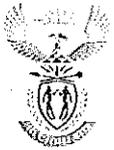
<u>Date(s) from which applicable GA is/was applicable to this water use</u>	
South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



water affairs
 Department:
 Water Affairs
 REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION
 (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching
- Ash-blending
- Co-disposal
- Other (specify) Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be Lined
- b) If lined, the lining system is Clay (compacted earth + clay)
- (Mark the applicable option with an X) Composite lining system

- 1.7 Total area of 'property' on which waste is disposed 2078 hectares
- 1.8 Area of actual waste body ("footprint" area) 0.2 hectares
- 1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	420	59	26	meters
b) After rehabilitation	0	0	0	meters
c) Available air space		N/A		cubic meters
d) Total volume already used for waste disposal		0		cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor <input checked="" type="checkbox"/> Estimate			

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area 60000 m
- Informal residential area 5000 m
- Industrial Area 60000 m

b) Buffer zone determination done by Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point only due to small size.

Latitude S 27° 10' 21.0" or S ° or S °

Longitude E 29° 40' 14.0" or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months	mm	Total evaporation (A-pan) for 6 months	mm	Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname: **PRETORIUS**

Initials &/or First Name: **NICO**

Title: **MR** ID No.:

Phone Number: **011 785 4502** Ext:

Fax Number: **086 692 9728** Cellphone: **082 824 0913**

E-mail Address: **NPretorius@coalofafrica.co.za**

Highest Educational Qualification:

Grade 8 / Std 6 Grade 10 / Std 8 Matric

Diploma Higher Diploma Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- Landfill or Landbuild
- Composting plant
- Encapsulation
- Transfer station
- Storage area
- Other (specify)
- Recycling facility
- Treatment plant
- Incinerator

Stockpile area

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

2.3 Is sufficient cover material on site?

- Yes
- No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

- Daily compaction and covering
- Burning of waste
- Weekly compaction and covering

2.5 Is leachate management system present?

- Yes
- No

2.6 Storm water management (mark the applicable options with an X)

- Upstream cut-off trenches
- Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY **Not LISTED.**

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands	Facility is generally lined (clay liners typically) and are designed to receive 120//m2/d at a depth of 30 cm.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater and seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
Ash Dams/Dumps	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Side slopes stabilized to minimize erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		
Coal Dams	Lined facility (synthetic or clay liners)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place & connected to the polluted storm water system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Effluent in the dam is not of acidic pH	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Dam is covered to prevent contact with oxygen	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility does not maintain anaerobic conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		
Effluent Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility has seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Splitting of facility into 2 separate compartments for the purposes of cleaning and management	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
Evaporation Dams/Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		
Forced Evaporation	Evaporation only with wind speeds less than 2m/sec	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	No evaporate pre-dawn as humidity is high	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
<hr/>			
Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
<hr/>			
Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		
<hr/>			
Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		
<hr/>			
Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	_____		
<hr/>			
Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds

Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		

Sludge Ponds/Lagoons

Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		

Waste Rock Dump

Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		

Waste Storage

Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
For pits, ingress of water is prevented		
Any other practice:		

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

Yes

No

Stormwater collection system in place

Yes

No

Stormwater diversion measures in place

Yes

No

Seepage collection system in place

Yes

No

Adequate structures in place to ensure capture of a 1:50 year storm event

Yes

No

Emergency incident structures in place

Yes

No

Any other practice:



water affairs

Department: Water Affairs REPUBLIC OF SOUTH AFRICA

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(g) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Indicate the nature of this application: [X] Licence [] Registration (only)
1.2 Have you already registered a water use with the Department of Water Affairs and Forestry? [] Yes [X] No
1.3 Indicate if Section 21(j) is applicable to this water use application: [] Yes [X] No
1.4 Do you have a licence, permit or exemption for this waste discharge? [] Yes [X] No

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)

 Provincial Department (complete 1.9)
- Company, business, partnership or community (complete 1.7)

 Water Services Provider (complete 1.10)
- National Department (complete 1.8)

 Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (If holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable ~~I/we~~ BALDWIN CHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

B. Chosa

Signature

Company Representative

Designation of signatory



Thumb print

(011) 735 4518

Contact number during office hours

2009/11/06

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

- Agriculture**
 - Aquaculture
 - Irrigation
 - Intensive Animal Husbandry
 - Other (please specify below)
- Urban / Domestic**
 - Sewage Treatment Works
 - Waste Disposal
 - Water Treatment Works
- Industry**
 - Agroprocessing
 - Fertilisers
 - Metal Processing And Finishing
 - Textile
 - Power Generation
 - Meat Processing
 - Manufacturing
 - Paper And Pulp
 - Winery
 - Other (please specify below)
- Mining**
 - Coal
 - Gold
 - Platinum
 - Copper
 - Chromium
 - Iron
 - Diamond
 - Sand-winning
 - Quarrying
 - Peat Mining
 - Uranium
 - Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge)
- 2.2.2 Wastewater containing >70% water by mass
- 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10)
- 2.2.4 Wastewater with temperature of >50°C
- 2.2.5 Wastewater with an oxygen content of <5 mg/l
- 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m
- 2.2.7 Wastewater with an EC of <500mS/m

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load)
- 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load)
- 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load)
- 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load)

2.4 Describe the activity that generates the waste

Secondary washing stockpile area.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable) (ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

N/A Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

6020 Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

Cubic meters

OR

Percentage (%) of total

OR

Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

The maximum capacity of the stockpile area is 6020 m³ and will be filled and emptied within 24 hrs. No cumulative capacity is required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m ³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

N/A

Average disposal volume (cubic meters) Time Interval: Per Month Per Annum

Maximum disposal volume anticipated (cubic meters) Time Interval: Per Month Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources
(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where discharge is taking place
- | | |
|--|---|
| <input checked="" type="checkbox"/> River / Stream | <input type="checkbox"/> Dam |
| <input type="checkbox"/> Estuary | <input type="checkbox"/> Lake |
| <input type="checkbox"/> Wetland | <input type="checkbox"/> GWS Scheme |
| <input type="checkbox"/> Marine | <input type="checkbox"/> Other (please specify below) |

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

300

3.1.2 Description of Groundwater Resources
(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where discharge is taking place
- | | |
|---|---|
| <input type="checkbox"/> Spring / Eye | <input type="checkbox"/> GWS Scheme |
| <input checked="" type="checkbox"/> Borehole | <input type="checkbox"/> Boreholes And Windmills On Government Land |
| <input type="checkbox"/> Other (please specify below) | |

b) Name / description of the nearest surface water resource

Overlakte Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	Date	To:
Bergen Op Zoom	T12375/2009	MS	124	RE							
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant (Specify) → Stockpile	<input type="checkbox"/>	0.3	30	20100301	

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

- DW901 Yes No
- DW902 Yes No
- DW905 Yes No

5.2 Mark with an X if these documents have been submitted with this application

- Environmental Impact Assessment (EIA)
- Environmental Management Programme (EMPR)
- Standard Environmental Management Programme
- Integrated Water and Waste Management Plan (IWWMP)
- Integrated Water Use Licence Application Report
- Report on Waste Water Quality (solute load, seasonal changes, etc.)
- Report on Industrial Process Generating Waste water
- Geohydrological Report
- Civil Designs
- Contingency Plan for Failures and Malfunctions of System
- Monitoring Programme(s)
- Topographical Map (1:50 000)
- National Water Act (Act No 36 of 1998) – Section 27 Evaluation
- DW760 NWA-Section 21(a)
- DW761 NWA-Section 21(b)
- DW762 NWA-Section 21(b)
- DW763 NWA-Section 21(c)
- DW764 NWA-Section 21(d)
- DW765 NWA-Section 21(e)
- DW766 NWA-Section 21(f)
- DW767 NWA-Section 21(g)
- DW768 NWA-Section 21(i)
- DW780 NWA-Section 21(h)
- DW805 NWA-Section 21(j)
- DW903
- DW904
- Other (specify other documents submitted with this form)
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
Waste Generating Sector	Best practice leading to zero impact				Standard/minimum requirements	Poor practice	
Mining	Slimes/Tailings Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Artificial Wetlands	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
	Artificial Wetlands	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
			Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
			Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | |
|---|----------------------------|
| B- Water deficit climate resulting in only sporadic leachate generation | C Communal Landfill |
| B+ Water surplus climate resulting in significant leachate generation | S Small Landfill |
| G General waste or landfill for general waste | M Medium Landfill |
| H:H Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L Large Landfill |
| H:h Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | |

Site classification Date (ccyymmdd)

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from Until (ccyymmdd)

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer? Yes No

6.4.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyymmdd)
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information

6.6.1 Applicant to be billed as:

Water User or Via a WUA/WSP

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 Water User

6.6.2 Bill incentive charge:

On actual load(s) or Registered load(s)

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 On actual load(s)

6.6.3 Billing Frequency: Annually Bi-annually Monthly

6.6.4 If to be billed via WUA/WSP:

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

- R300.00 OR
- 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]	[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit

Water Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

File number (i.e. Office Hardcopy Register File No)

Waste Management Facility Number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION
(ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)
DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching
- Ash-blending
- Co-disposal
- Other (specify) Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be Lined
- b) If lined, the lining system is Clay (compacted earth + clay)
- (Mark the applicable option with an X) Composite lining system

1.7 Total area of 'property' on which waste is disposed hectares
 1.8 Area of actual waste body ("footprint" area) hectares

1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	<input type="text" value="16"/>	<input type="text" value="98"/>	<input type="text" value="35"/>	meters
b) After rehabilitation	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	meters
c) Available air space		<input type="text" value="N/A"/>		cubic meters
d) Total volume already used for waste disposal		<input type="text" value="0"/>		cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor		<input checked="" type="checkbox"/> Estimate	

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area m
- Informal residential area m
- Industrial Area m

b) Buffer zone determination done by Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point due to small size

Latitude or ° or °

Longitude or ° or °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude ° or °

Longitude ° or °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude ° or °

Longitude ° or °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude ° or °

Longitude ° or °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude ° or °

Longitude ° or °

Datum Type: Cape (Modified Clarke 1880) WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A	7	1	L
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1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS , WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname: PRETORIUS

Initials &/or First Name: NICO

Title: MR ID No.:

Phone Number: 011 785 4502 Ext:

Fax Number: 086 692 9728 Cellphone: 082 824 0913

E-mail Address: NPreorius@coalofafrica.co.za

Highest Educational Qualification: Grade 8 / Std 6 Grade 10 / Std 8 Matric Diploma Higher Diploma Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- Landfill or Landbuild Transfer station Recycling facility Incinerator
 Composting plant Storage area Treatment plant
 Encapsulation Other (specify) Stockpile area

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

- Yes No

2.4 Covering and burning of waste (mark applicable options with an X) N/A

- Daily compaction and covering Weekly compaction and covering
 Burning of waste

2.5 Is leachate management system present?

- Yes No

2.6 Storm water management (mark the applicable options with an X)

- Upstream cut-off trenches Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY *Not LISTED*

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120l/m²/d at a depth of 30 cm. Yes No

Stormwater and seepage drains Yes No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) Yes No

Side slopes stabilized to minimize erosion Yes No

Rainfall runoff collected into a dirty water storage facility Yes No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility Yes No

For pits, ingress of water is prevented Yes No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) Yes No

Seepage drains in place Yes No

Storm water drains in place & connected to the polluted storm water system Yes No

Effluent in the dam is not of acidic pH Yes No

Dam is covered to prevent contact with oxygen Yes No

Facility does not maintain anaerobic conditions Yes No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) Yes No

Facility has seepage drains Yes No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management Yes No

Any other practice: _____

Evaporation Dams/Ponds Lined facility (synthetic or clay) Yes No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec Yes No

No evaporate pre-dawn as humidity is high Yes No

Any other practice: _____

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		

Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		

Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		

Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		_____	

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		_____

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		_____

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented		
Any other practice:		_____	

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

Yes

No

Stormwater collection system in place

Yes

No

Stormwater diversion measures in place

Yes

No

Seepage collection system in place

Yes

No

Adequate structures in place to ensure capture of a 1:50 year storm event

Yes

No

Emergency incident structures in place

Yes

No

Any other practice:

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)

 Provincial Department (complete 1.9)
 Company, business, partnership or community (complete 1.7)

 Water Services Provider (complete 1.10)
 National Department (complete 1.8)

 Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable from BALDWIN CHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Baldwin Chosa

Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

- | | |
|---|---|
| Agriculture | |
| <input type="checkbox"/> Aquaculture | <input type="checkbox"/> Intensive Animal Husbandry |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Other (please specify below) |
| <hr/> | |
| Urban / Domestic | |
| <input type="checkbox"/> Sewage Treatment Works | <input type="checkbox"/> Water Treatment Works |
| <input type="checkbox"/> Waste Disposal | |
| <hr/> | |
| Industry | |
| <input type="checkbox"/> Agroprocessing | <input type="checkbox"/> Meat Processing |
| <input type="checkbox"/> Fertilisers | <input type="checkbox"/> Manufacturing |
| <input type="checkbox"/> Metal Processing And Finishing | <input type="checkbox"/> Paper And Pulp |
| <input type="checkbox"/> Textile | <input type="checkbox"/> Winery |
| <input type="checkbox"/> Power Generation | <input type="checkbox"/> Other (please specify below) |
| <hr/> | |
| Mining | |
| <input checked="" type="checkbox"/> Coal | <input type="checkbox"/> Diamond |
| <input type="checkbox"/> Gold | <input type="checkbox"/> Sand-winning |
| <input type="checkbox"/> Platinum | <input type="checkbox"/> Quarrying |
| <input type="checkbox"/> Copper | <input type="checkbox"/> Peat Mining |
| <input type="checkbox"/> Chromium | <input type="checkbox"/> Uranium |
| <input type="checkbox"/> Iron | <input type="checkbox"/> Other (please specify below) |

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- | | |
|---|--------------------------|
| 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) | <input type="checkbox"/> |
| 2.2.2 Wastewater containing >70% water by mass | <input type="checkbox"/> |
| 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) | <input type="checkbox"/> |
| 2.2.4 Wastewater with temperature of >50°C | <input type="checkbox"/> |
| 2.2.5 Wastewater with an oxygen content of <5 mg/l | <input type="checkbox"/> |
| 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m | <input type="checkbox"/> |
| 2.2.7 Wastewater with an EC of <500mS/m | <input type="checkbox"/> |

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- | | |
|--|--------------------------|
| 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |

2.4 Describe the activity that generates the waste

Product stockpile area

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable) (ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

N/A

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

11735

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

Cubic meters

OR

Percentage (%) of total

OR

Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

N/A

The maximum capacity of the stockpile is 11735 m³ and will be routinely filled and emptied within 24 hrs. No cumulative capacity is required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

N/A

Average disposal volume (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Date From:	Date To:
Bergen Op Zoom	T12375/2009		115							
			124							
			RS							

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant	<input checked="" type="checkbox"/>	0.2	30	20100301	
(Specify)	<u>Stockpile</u>				

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
Waste Generating Sector	Best practice leading to zero impact				Standard/minimum requirements	Poor practice	
Mining	Slimes/Tailings Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd) Until (ccyymmdd)

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer? Yes No

6.4.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyymmdd)
<input type="text"/>	<input type="text"/>	_____	<input type="text"/>
<input type="text"/>	<input type="text"/>	_____	<input type="text"/>
<input type="text"/>	<input type="text"/>	_____	<input type="text"/>

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing Information

6.6.1 Applicant to be billed as:

Water User or Via a WUA/WSP

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 Water User

6.6.2 Bill incentive charge:

On actual load(s) or Registered load(s)

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 On actual load(s)

6.6.3 Billing Frequency: Annually Bi-annually Monthly

6.6.4 If to be billed via WUA/WSP:

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

- R300.00 OR
- 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]	[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



SUPPLEMENTARY WATER USE INFORMATION
(ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching
- Ash-blending
- Co-disposal
- Other (specify)

Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be
 - Lined
- b) If lined, the lining system is
 - Clay
 - Composite lining system

(compacted earth + clay)

1.7 Total area of 'property' on which waste is disposed hectares
 1.8 Area of actual waste body ("footprint" area) hectares

1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	<input type="text" value="17"/>	<input type="text" value="50"/>	<input type="text" value="50"/>	meters
b) After rehabilitation	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	meters
c) Available air space		<input type="text" value="N/A"/>		cubic meters
d) Total volume already used for waste disposal		<input type="text" value="0"/>		cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor		<input checked="" type="checkbox"/> Estimate	

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area m
- Informal residential area m
- Industrial Area m

b) Buffer zone determination done by Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point only due to small size.

Latitude or or

Longitude or or

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude or or

Longitude or or

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude or or

Longitude or or

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude or or

Longitude or or

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude or or

Longitude or or

Datum Type: Cape (Modified Clarke 1880) WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months	mm	Total evaporation (A-pan) for 6 months	mm	Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname PRETORIUS

Initials &/or First Name NICO

Title MR ID No.

Phone Number 011 785 4502 Ext

Fax Number 086 692 9728 Cellphone 082 824 0913

E-mail Address NPretorius@coalofafrica.co.za

Highest Educational Qualification

<input type="checkbox"/> Grade 8 / Std 6	<input type="checkbox"/> Grade 10 / Std 8	<input type="checkbox"/> Matric
<input type="checkbox"/> Diploma	<input type="checkbox"/> Higher Diploma	<input checked="" type="checkbox"/> Degree

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY *Not Listed*

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120l/m²/d at a depth of 30 cm. Yes No

Stormwater and seepage drains Yes No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) Yes No

Side slopes stabilized to minimize erosion Yes No

Rainfall runoff collected into a dirty water storage facility Yes No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility Yes No

For pits, ingress of water is prevented Yes No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) Yes No

Seepage drains in place Yes No

Storm water drains in place & connected to the polluted storm water system Yes No

Effluent in the dam is not of acidic pH Yes No

Dam is covered to prevent contact with oxygen Yes No

Facility does not maintain anaerobic conditions Yes No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) Yes No

Facility has seepage drains Yes No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management Yes No

Any other practice: _____

Evaporation Dams/Ponds Lined facility (synthetic or clay) Yes No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec Yes No

No evaporate pre-dawn as humidity is high Yes No

Any other practice: _____

Continued on next page

Maturation Ponds

Facility lined (synthetic or clay) Yes No

Facility designed to ensure at least 5 days retention time Yes No

Storm water and seepage collection drains in place Yes No

Any other practice: _____

Waste Water Ponds

Lined facility (synthetic or clay) Yes No

Storm water collection drains in place Yes No

Seepage drains in place Yes No

Any other practice: _____

Open Cast Voids

Diversion of upslope storm water around the void Yes No

Upstream diversion berms or management measures to prevent inflow of water into the void Yes No

Prevention of water flowing into the void by using highball drains where necessary Yes No

Ensure any water within the void is contained Yes No

Any other practice: _____

Oxidation Ponds

Lined facility (synthetic or clay) Yes No

Adequate structures in place to ensure capture of a 1:50 year storm event Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Polluted Stormwater System

Storm water discharged directly to the resource Yes No

Collection system incorporating the plant, raw material stockpiles and waste disposal facilities Yes No

Clean stormwater separated from stormwater draining "dirty" sites or facilities Yes No

Polluted stormwater collected & stored in dams Yes No

Any other practice: _____

Return Water Dams

Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions Yes No

Any other practice: _____

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds

Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice: _____

Sludge Ponds/Lagoons

Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice: _____

Waste Rock Dump

Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice: _____

Waste Storage

Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No

For pits, ingress of water is prevented

Any other practice: _____

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

Yes

No

Stormwater collection system in place

Yes

No

Stormwater diversion measures in place

Yes

No

Seepage collection system in place

Yes

No

Adequate structures in place to ensure capture of a 1:50 year storm event

Yes

No

Emergency incident structures in place

Yes

No

Any other practice:



water affairs

Department: Water Affairs REPUBLIC OF SOUTH AFRICA

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(g) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Indicate the nature of this application: [X] Licence [] Registration (only)
1.2 Have you already registered a water use with the Department of Water Affairs and Forestry? [] Yes [X] No
1.3 Indicate if Section 21(j) is applicable to this water use application: [] Yes [X] No
1.4 Do you have a licence, permit or exemption for this waste discharge? [] Yes [X] No

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)
- Company, business, partnership or community (complete 1.7)
- National Department (complete 1.8)
- Provincial Department (complete 1.9)
- Water Services Provider (complete 1.10)
- Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:

1.7.1 Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable ~~to~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative

Designation of signatory

(011) 785 4513

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

- | | |
|---|---|
| Agriculture | |
| <input type="checkbox"/> Aquaculture | <input type="checkbox"/> Intensive Animal Husbandry |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Other (please specify below) |
| <hr/> | |
| Urban / Domestic | |
| <input type="checkbox"/> Sewage Treatment Works | <input type="checkbox"/> Water Treatment Works |
| <input type="checkbox"/> Waste Disposal | |
| <hr/> | |
| Industry | |
| <input type="checkbox"/> Agroprocessing | <input type="checkbox"/> Meat Processing |
| <input type="checkbox"/> Fertilisers | <input type="checkbox"/> Manufacturing |
| <input type="checkbox"/> Metal Processing And Finishing | <input type="checkbox"/> Paper And Pulp |
| <input type="checkbox"/> Textile | <input type="checkbox"/> Winery |
| <input type="checkbox"/> Power Generation | <input type="checkbox"/> Other (please specify below) |
| <hr/> | |
| Mining | |
| <input checked="" type="checkbox"/> Coal | <input type="checkbox"/> Diamond |
| <input type="checkbox"/> Gold | <input type="checkbox"/> Sand-winning |
| <input type="checkbox"/> Platinum | <input type="checkbox"/> Quarrying |
| <input type="checkbox"/> Copper | <input type="checkbox"/> Peat Mining |
| <input type="checkbox"/> Chromium | <input type="checkbox"/> Uranium |
| <input type="checkbox"/> Iron | <input type="checkbox"/> Other (please specify below) |

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- | | |
|---|--------------------------|
| 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) | <input type="checkbox"/> |
| 2.2.2 Wastewater containing >70% water by mass | <input type="checkbox"/> |
| 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) | <input type="checkbox"/> |
| 2.2.4 Wastewater with temperature of >50°C | <input type="checkbox"/> |
| 2.2.5 Wastewater with an oxygen content of <5 mg/l | <input type="checkbox"/> |
| 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m | <input type="checkbox"/> |
| 2.2.7 Wastewater with an EC of <500mS/m | <input type="checkbox"/> |

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- | | |
|--|--------------------------|
| 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |
| 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) | <input type="checkbox"/> |

2.4 Describe the activity that generates the waste

Discard stockpile area.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable) (ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

N/A

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

11735

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

Cubic meters

OR

Percentage (%) of total

OR

Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

The maximum capacity of the stockpile area is 11735 m³ and will be routinely filled and emptied within 24 hrs. No cumulative capacity is required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

N/A

Average disposal volume (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

N/A

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources
(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where discharge is taking place
- | | |
|--|---|
| <input checked="" type="checkbox"/> River / Stream | <input type="checkbox"/> Dam |
| <input type="checkbox"/> Estuary | <input type="checkbox"/> Lake |
| <input type="checkbox"/> Wetland | <input type="checkbox"/> GWS Scheme |
| <input type="checkbox"/> Marine | <input type="checkbox"/> Other (please specify below) |

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

300

3.1.2 Description of Groundwater Resources
(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where discharge is taking place
- | | |
|---|---|
| <input type="checkbox"/> Spring / Eye | <input type="checkbox"/> GWS Scheme |
| <input checked="" type="checkbox"/> Borehole | <input type="checkbox"/> Boreholes And Windmills On Government Land |
| <input type="checkbox"/> Other (please specify below) | |

b) Name / description of the nearest surface water resource:

Ovarulakto Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen Op Zoom	T12375/2009		115								
			124								
			RE								

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant (Specify) <i>Stockpile</i>	<input checked="" type="checkbox"/>	<i>0.2</i>	<i>30</i>	<i>20100301</i>	

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

- DW901 Yes No
- DW902 Yes No
- DW905 Yes No

5.2 Mark with an X if these documents have been submitted with this application

- Environmental Impact Assessment (EIA)
- Environmental Management Programme (EMPR)
- Standard Environmental Management Programme
- Integrated Water and Waste Management Plan (IWWMP)
- Integrated Water Use Licence Application Report
- Report on Waste Water Quality (solute load, seasonal changes, etc.)
- Report on Industrial Process Generating Waste water
- Geohydrological Report
- Civil Designs
- Contingency Plan for Failures and Malfunctions of System
- Monitoring Programme(s)
- Topographical Map (1:50 000)
- National Water Act (Act No 36 of 1998) – Section 27 Evaluation
- DW760 NWA-Section 21(a)
- DW761 NWA-Section 21(b)
- DW762 NWA-Section 21(b)
- DW763 NWA-Section 21(c)
- DW764 NWA-Section 21(d)
- DW765 NWA-Section 21(e)
- DW766 NWA-Section 21(f)
- DW767 NWA-Section 21(g)
- DW768 NWA-Section 21(i)
- DW780 NWA-Section 21(h)
- DW805 NWA-Section 21(j)
- DW903
- DW904
- Other (specify other documents submitted with this form)
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|
- | | | | | | |
|---|---|--|--|--|--|
| D | W | | | | |
|---|---|--|--|--|--|

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
Waste Generating Sector	Best practice leading to zero impact				Standard/minimum requirements	Poor practice	
Mining	Slimes/Tailings Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Artificial Wetlands	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Artificial Wetlands	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
Polluted Storm Water System	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccymmdd)

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccymmdd) Until (ccymmdd)

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer? Yes No

6.4.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccymmdd)
<input type="text"/>	<input type="text"/>	_____	<input type="text"/>
<input type="text"/>	<input type="text"/>	_____	<input type="text"/>
<input type="text"/>	<input type="text"/>	_____	<input type="text"/>

6.5 District Municipality

District Municipality Name (if applicable) _____

6.6 Billing information

6.6.1 Applicant to be billed as:

Water User or Via a WUA/WSP

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 Water User

6.6.2 Bill incentive charge:

On actual load(s) or Registered load(s)

Start Date (ccyymmdd)							

End Date (ccyymmdd)							

 On actual load(s)

6.6.3 Billing Frequency:

Annually Bi-annually Monthly

6.6.4 If to be billed via WUA/WSP:

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

6.8 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

- R300.00 OR
- 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit

Water Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

File number (i.e. Office Hardcopy Register File No)

Waste Management Facility Number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)



SUPPLEMENTARY WATER USE INFORMATION
 (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wellands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching
- Ash-blending
- Co-disposal
- Other (specify) Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be Lined
- b) If lined, the lining system is Clay *(compacted earth + clay)*
- (Mark the applicable option with an X) Composite lining system

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

0.2 hectares

1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	17	50	50	meters
b) After rehabilitation	0	0	0	meters
c) Available air space		N/A		cubic meters
d) Total volume already used for waste disposal		0		cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor		<input checked="" type="checkbox"/> Estimate	

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area: 60000 m
- Informal residential area: 5000 m
- Industrial Area: 60000 m

b) Buffer zone determination done by Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point only due to small size

Latitude S 22° 10' 19.0" or S ° or S °

Longitude E 29° 40' 22.0" or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A	7	1	L
---	---	---	---

1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS , WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname PRETORIUS

Initials &/or First Name NICO

Title MR ID No.

Phone Number 011 785 4502 Ext

Fax Number 086 692 9728 Cellphone 082 824 0913

E-mail Address NPretorius@coalofafrica.co.za

Highest Educational Qualification Grade 8 / Std 6 Grade 10 / Std 8 Matric Diploma Higher Diploma Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- Landfill or Landbuild Transfer station Recycling facility Incinerator
 Composting plant Storage area Treatment plant
 Encapsulation Other (specify)

Stockpile area

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

- Yes No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

- Daily compaction and covering Weekly compaction and covering
 Burning of waste

2.5 Is leachate management system present?

- Yes No

2.6 Storm water management (mark the applicable options with an X)

- Upstream cut-off trenches Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY NOT LISTED

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120l/m²/d at a depth of 30 cm. Yes No

Stormwater and seepage drains Yes No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) Yes No

Side slopes stabilized to minimize erosion Yes No

Rainfall runoff collected into a dirty water storage facility Yes No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility Yes No

For pits, ingress of water is prevented Yes No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) Yes No

Seepage drains in place Yes No

Storm water drains in place & connected to the polluted storm water system Yes No

Effluent in the dam is not of acidic pH Yes No

Dam is covered to prevent contact with oxygen Yes No

Facility does not maintain anaerobic conditions Yes No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) Yes No

Facility has seepage drains Yes No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management Yes No

Any other practice: _____

Evaporation Dams/Ponds Lined facility (synthetic or clay) Yes No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec Yes No

No evaporate pre-dawn as humidity is high Yes No

Any other practice: _____

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		

Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		<hr/>	

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		<hr/>

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		<hr/>

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented		
Any other practice:		<hr/>	

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

Yes

No

Stormwater collection system in place

Yes

No

Stormwater diversion measures in place

Yes

No

Seepage collection system in place

Yes

No

Adequate structures in place to ensure capture of a 1:50 year storm event

Yes

No

Emergency incident structures in place

Yes

No

Any other practice:

1.5 Applicant Type (mark only one block with X)

- Individual (complete 1.6)

 Provincial Department (complete 1.9)
- Company, business, partnership or community (complete 1.7)

 Water Services Provider (complete 1.10)
- National Department (complete 1.8)

 Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable to BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- Aquaculture
- Irrigation
- Intensive Animal Husbandry
- Other (please specify below)

Urban / Domestic

- Sewage Treatment Works
- Waste Disposal
- Water Treatment Works

Industry

- Agroprocessing
- Fertilisers
- Metal Processing And Finishing
- Textile
- Power Generation
- Meat Processing
- Manufacturing
- Paper And Pulp
- Winery
- Other (please specify below)

Mining

- Coal
- Gold
- Platinum
- Copper
- Chromium
- Iron
- Diamond
- Sand-winning
- Quarrying
- Peat Mining
- Uranium
- Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge)
- 2.2.2 Wastewater containing >70% water by mass
- 2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10)
- 2.2.4 Wastewater with temperature of >50°C
- 2.2.5 Wastewater with an oxygen content of <5 mg/l
- 2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m
- 2.2.7 Wastewater with an EC of <500mS/m

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load)
- 2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load)
- 2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load)
- 2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load)

2.4 Describe the activity that generates the waste

Discard from coal
beneficiation process

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

2000000

thous.
Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Cubic meters

N/A
OR

Percentage (%) of total

OR

Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

UNKNOWN

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources
(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where discharge is taking place
- River / Stream
 - Estuary
 - Wetland
 - Marine
 - Dam
 - Lake
 - GWS Scheme
 - Other (please specify below)

b) Name / description of the nearest surface water resource:

LIMPOPO RIVER

c) Distance to the nearest water resource (meters)

 +100

(at closest point)

3.1.2 Description of Groundwater Resources
(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where discharge is taking place
- Spring / Eye
 - Borehole
 - Other (please specify below)
 - GWS Scheme
 - Boreholes And Windmills On Government Land

b) Name / description of the nearest surface water resource

Ovicolacte Aquifer

c) Distance to the nearest groundwater resource (meters)

 +100

(at closest point)

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Date From:	Date To:
Overlake	T 44946/2009	MS	125	3+4	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
	T 22619/2009	MS	125	5	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- Sewage Sludge
- Industrial Sludge
- Mining Waste
- Hazardous Waste
- Industrial Ash (all industries)
- Power Generation
- Household Refuse
- Farming Waste
- Dry Industrial Waste
- Industrial Liquid
- Other

Specify Other: _____

4.1.2 Approximate maximum volume/tonnage per site per day 5,500 tons

4.1.3 Approximate total tonnage per site per annum 2000000 tons
 _____ tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

IN-PIT DISPOSAL

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>				
Coal Dams	<input type="checkbox"/>				
Composting	<input type="checkbox"/>				
Domestic Waste	<input type="checkbox"/>				
Effluent Dams	<input type="checkbox"/>				
Evaporation Dams/Ponds	<input type="checkbox"/>				
Forced Evaporation	<input type="checkbox"/>				
Maturation Ponds	<input type="checkbox"/>				

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input checked="" type="checkbox"/>	1 2 3 3	30	20100301	
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant (Specify)	<input type="checkbox"/>				

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
Waste Generating Sector	Best practice leading to zero impact				Standard/minimum requirements	Poor practice	
Mining	Slimes/Tailings Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Artificial Wetlands	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
Polluted Storm Water System	Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
			Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from Until
(ccyymmdd) (ccyymmdd)

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer? Yes No

6.4.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyymmdd)
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information

6.6.1 Applicant to be billed as:

Water User or Via a WUA/WSP Water User
 Start Date (ccyymmdd) End Date (ccyymmdd)

6.6.2 Bill incentive charge:

On actual load(s) or Registered load(s) On actual load(s)
 Start Date (ccyymmdd) End Date (ccyymmdd)

6.6.3 Billing Frequency:

Annually Bi-annually Monthly

6.6.4 If to be billed via WUA/WSP:

Name of WUA/WSP _____

Is WUA/WSP a Billing Agent? Yes No

Billing Agent's Register Number

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer _____

Bulk-Bill-to-Party Register Number

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

6.8 Late registration penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

- R300.00 OR
 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable _____

Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit

Water Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

File number (i.e. Office Hardcopy Register File No)

Waste Management Facility Number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)



SUPPLEMENTARY WATER USE INFORMATION
 (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- In an area below the 1 in 100 flood line of any watercourse
- In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- In sensitive ecological and/or historical areas
- In a catchment area for important, "significant" or sensitive surface water resources
- In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- Areas of groundwater recharge on account of topography and/or highly permeable soils
- Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- Within an area with shallow bedrock and limited available cover material
- Areas in close proximity to land uses that are incompatible with waste disposal activities
- Areas where adequate buffer zones are not possible

1.3 Method of disposal

- Trenching
- Ash-blending
- Co-disposal
- Other (specify)

In-pit disposal of discard / filter cake (slurry)

1.4 Distance from nearest borehole used for drinking water or stock watering

meters (at closest point)

1.5 Distance from the edge of nearest downstream surface water resource

meters (at closest point)

1.6 Lining of the site

- a) The site is / will be Lined
- b) If lined, the lining system is Clay
- (Mark the applicable option with an X) Composite lining system

1.7 Total area of 'property' on which waste is disposed

2027 hectares

1.8 Area of actual waste body ("footprint" area)

1233 hectares

1.9 Dimensions of waste site

N/A

(total opencast area)

- a) At commencement

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

 meters
- b) After rehabilitation

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

 meters
- c) Available air space

--	--	--	--	--	--

 cubic meters
- d) Total volume already used for waste disposal

--	--	--	--	--	--

 cubic meters
- e) Accuracy of above volumes
 Surveyor Estimate

1.10 Buffer Zone

- a) Actual distance to the boundary of the nearest:
 - Formal residential area

--	--	--	--	--	--

 m
 - Informal residential area

--	--	--	--	--	--

 m
 - Industrial Area

--	--	--	--	--	--

 m
- b) Buffer zone determination done by
 Scientific method Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Latitude S 22° 08' 58.0" or S ° or S °

Longitude E 29° 40' 42.4" or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S 22° 09' 56.7" or S ° or S °

Longitude E 29° 41' 23.2" or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S 22° 09' 43.4" or S ° or S °

Longitude E 29° 39' 52.1" or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are November to April May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS , WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname PRETORIUS

Initials &/or First Name NICO

Title MR ID No.

Phone Number 011 785 4502 Ext

Fax Number 086 692 9728 Cellphone 082 824 0913

E-mail Address NPretorius@coalofafrica.co.za

Highest Educational Qualification Grade 8 / Std 6 Grade 10 / Std 8 Matric Diploma Higher Diploma Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- Landfill or Landbuild
 Transfer station
 Recycling facility
 Incinerator
 Composting plant
 Storage area
 Treatment plant
 Encapsulation
 Other (specify)

Discard in-pit disposal

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

- Yes
 No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

- Daily compaction and covering
 Weekly compaction and covering
 Burning of waste

2.5 Is leachate management system present?

- Yes
 No

2.6 Storm water management (mark the applicable options with an X)

- Upstream cut-off trenches
 Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands	Facility is generally lined (clay liners typically) and are designed to receive 120l/m ² /d at a depth of 30 cm.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater and seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
Ash Dams/Dumps	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Side slopes stabilized to minimize erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
Coal Dams	Lined facility (synthetic or clay liners)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place & connected to the polluted storm water system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Effluent in the dam is not of acidic pH	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Dam is covered to prevent contact with oxygen	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility does not maintain anaerobic conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
Effluent Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility has seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Splitting of facility into 2 separate compartments for the purposes of cleaning and management	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
Evaporation Dams/Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	
Forced Evaporation	Evaporation only with wind speeds less than 2m/sec	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	No evaporate pre-dawn as humidity is high	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	_____	

Continued on next page

Maturation Ponds

Facility lined (synthetic or clay) Yes No

Facility designed to ensure at least 5 days retention time Yes No

Storm water and seepage collection drains in place Yes No

Any other practice: _____

Waste Water Ponds

Lined facility (synthetic or clay) Yes No

Storm water collection drains in place Yes No

Seepage drains in place Yes No

Any other practice: _____

Open Cast Voids

Diversion of upslope storm water around the void Yes No

Upstream diversion berms or management measures to prevent inflow of water into the void Yes No

Prevention of water flowing into the void by using high ball drains where necessary Yes No

Ensure any water within the void is contained Yes No

Any other practice: _____

Discard will be placed at the bottom of the pit and covered with overburden/topsoil.

Oxidation Ponds

Lined facility (synthetic or clay) Yes No

Adequate structures in place to ensure capture of a 1:50 year storm event Yes No

Seepage drains in place Yes No

Storm water collection drains in place Yes No

Any other practice: _____

Polluted Stormwater System

Storm water discharged directly to the resource Yes No

Collection system incorporating the plant, raw material stockpiles and waste disposal facilities Yes No

Clean stormwater separated from stormwater draining "dirty" sites or facilities Yes No

Polluted stormwater collected & stored in dams Yes No

Any other practice: _____

Return Water Dams

Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions Yes No

Any other practice: _____

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Silimes/Tallings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented		
Any other practice: _____			

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

Yes

No

Stormwater collection system in place

Yes

No

Stormwater diversion measures in place

Yes

No

Seepage collection system in place

Yes

No

Adequate structures in place to ensure capture of a 1:50 year storm event

Yes

No

Emergency incident structures in place

Yes

No

Any other practice:

PART 2 – SECTION 21(i)

- 1. PIPELINE STREAM CROSSING #1**
- 2. PIPELINE STREAM CROSSING #2**
- 3. PIPELINE STREAM CROSSING #3**

ASSOCIATED FORMS:

- 1. DW781suppl – Refer to S21(c)**

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

1.4.3 Date Established (ccyymmdd)

Country Where Established

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable ~~to~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Baldwin Khosa

Signature

Company Representative
Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

6.3 If water use is in terms of the General Authorisation, mark with X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.4 If an authorisation has been issued under other legislation

Law /Regulation

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:
Overlake 125 MS	T22619/2009	MS	125	S	Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		
					Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)		



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(i) of the National Water Act

Part 2

ALTERING THE BED, BANKS, COURSE OR CHARACTERISTICS OF A WATERCOURSE

SPECIAL NOTE
This form is not applicable for any structure that impedes or diverts flow.
For these structures, please complete form DW763/775

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?
Yes No
Registration Number:
Water Use Number:
Licence Related WU
RLA Reference
NRWU Licence Number
RLA Business Unit

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)
Individual (complete 1.3)
Company, business, partnership or community (complete 1.4)
National Department (complete 1.5)
Provincial Department (complete 1.6)
Water Services Provider (complete 1.7)
Water User Association (complete 1.8)

1.3 If the applicant is an individual
1.3.1 Title Surname Initials

For office use only

Allocated Reg. No. WU No.

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

1.4.3 Date Established (ccyymmdd)

Country Where Established

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/We BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Baldwin Khosa

Signature

Company Representative
Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

4.5 Purpose of the alteration
WATER SUPPLY PIPELINE

4.6 The activity is (mark only one block with X) Temporary Permanent

4.7 Start date of the alteration Start Date (ccyymmdd)
20100301

4.8 End date of the alteration (if temporary) End Date (ccyymmdd)
 [][][][][][][][][]

4.9 Enter the number of alterations on this property [][] **3**

5. DESCRIPTION OF WATER USE SECTOR(S)

5.1 Where applicable select one or more of the following water use sectors

- Agriculture: Aquaculture
- Agriculture: Irrigation
- Agriculture: Watering Livestock
- Evaporation (Storage)
- Industry (Non-urban)
- Industry (Urban)
- Mining
- Power Generation
- Recreation
- Water Supply Service

6. EXISTING AUTHORISATION

6.1 Water use started on Date (ccyymmdd)
 [][][][][][][][][]

6.2 If water use is an existing water use, mark with X and enter permit numbers

Permit No.	Permit number	Date (ccyymmdd)
Permit No.	[][][][][][][][][]	[][][][][][][][][]
Permit No.	[][][][][][][][][]	[][][][][][][][][]
Permit No.	[][][][][][][][][]	[][][][][][][][][]
Permit No.	[][][][][][][][][]	[][][][][][][][][]
Permit No.	[][][][][][][][][]	[][][][][][][][][]
Permit No.	[][][][][][][][][]	[][][][][][][][][]

6.3 If water use is in terms of the General Authorisation, mark with X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.4 If an authorisation has been issued under other legislation
 Law /Regulation

8. FOR OFFICE USE ONLY

8.1 List of attached forms and documents

8.1.1 Specify the number of other documents submitted with this form, if any

- Motivation for the proposed alteration
- Environmental impact assessment
- Certified copy of agreement from each property owner involved, if more than one

Specify the other documents submitted with this form (mark with an X)

- Other: (specify)
- Other: (specify)
- Other: (specify)
- Other: (specify)

D	W																		
D	W																		
D	W																		
D	W																		

8.2 Succession transfer and source Part 2 details

Source Register number	WU Number	WU Status to be allocated	WU Close Date (if applicable) (ccyymmdd)

8.3 District Municipality

District Municipality Name (if applicable)

8.4 Late Registration Penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

- R300.00 OR
 - 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater
- Specify the penalty amount payable
- Waive penalty

File number

Water Use Register Number

Received by:

Surname Initials

Position / Rank

Signature

Captured on NRWU database (ccymmdd)

Capured by: Surname Initials

Signature

Date stamp of receiving office

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

1.4.3 Date Established (ccyymmdd)

Country Where Established RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I ~~am~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative
Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a "succession-in-title" related Water Use? Yes
 (Mark only one box with an X) No

2.2 If yes, complete the following source details

2.3 Source Register Number WU Number
 Source Register Number WU Number
 Source Register Number WU Number

3. WATER RESOURCE INFORMATION

3.1 Name of water source

3.2 Type of water source
 River/stream Estuary Spring/Eye Wetland Dam Lake

3.3 Quaternary Drainage Region

4. DETAILS OF WATER USE ACTIVITY

4.1 Name of alteration

4.2 Location of the alteration
 a) Geographic location of the start of the alteration

Latitude ° ' . " or ° or ° ' . " ,
 Longitude ° ' . " or ° or ° ' . " ,
 Datum Type: Cape (Modified Clarke 1880) WGS-84

b) Geographic location of the end of the alteration (if different from the start)

Latitude ° ' . " or ° or ° ' . " ,
 Longitude ° ' . " or ° or ° ' . " ,
 Datum Type: Cape (Modified Clarke 1880) WGS-84

4.3 Length of watercourse affected by the alteration metres

4.4 Type of alteration (mark all applicable with an X)
 Bed Banks Course Other (specify below)

4.5 Purpose of the alteration
WATER SUPPLY PIPELINE

4.6 The activity is (mark only one block with X) Temporary Permanent

4.7 Start date of the alteration Start Date (ccyymmdd)
20100301

4.8 End date of the alteration (if temporary) End Date (ccyymmdd)

4.9 Enter the number of alterations on this property **3**

5. DESCRIPTION OF WATER USE SECTOR(S)

5.1 Where applicable select one or more of the following water use sectors

<input type="checkbox"/> Agriculture: Aquaculture	<input type="checkbox"/> Industry (Urban)
<input type="checkbox"/> Agriculture: Irrigation	<input checked="" type="checkbox"/> Mining
<input type="checkbox"/> Agriculture: Watering Livestock	<input type="checkbox"/> Power Generation
<input type="checkbox"/> Evaporation (Storage)	<input type="checkbox"/> Recreation
<input type="checkbox"/> Industry (Non-urban)	<input type="checkbox"/> Water Supply Service

6. EXISTING AUTHORISATION

6.1 Water use started on Date (ccyymmdd)

6.2 If water use is an existing water use, mark with X and enter permit numbers

	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

6.3 If water use is in terms of the General Authorisation, mark with X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation _____			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation _____			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation _____			

6.4 If an authorisation has been issued under other legislation

Law /Regulation

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	From:	To:
Overvalable 125 MS	T22619/2009	MS	125	S	Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
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					Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
					Surname of the Leader of Village, Community or Tribal Authority					

File number

Water Use Register Number

Received by:

Surname Initials

Position / Rank

Signature

Captured on NRWU database (ccyymmdd)

Capured by:

Surname Initials

Signature

Date stamp of receiving office

PART 2 – SECTION 21(j)

1. DEWATERING OF VELE OPENCAST PIT

ASSOCIATED FORMS:

1. DW767: OPENCAST DIRTY WATER DAM (Refer to S21(g))
2. DW765: DUST SUPPRESSION (Refer to S21(e))

1.7 If the applicant is a Provincial Department:

1.7.1 Province:

1.7.2 Provincial Department Name:

1.8 If the applicant is a Water Services Provider:

1.8.1 Name of WSP:

1.9 If the applicant is a Water User Association:

1.9.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable ~~to~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Baldwin Khosa

Signature

Company Representative
Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. WATER RESOURCE INFORMATION

2.1 Name of the place or aquifer from which water is removed

VELE COLLIERY OPENCAST PIT

2.2 Type of water source receiving the discharged water (mark only one block with an X)

River / stream Dam Estuary Wetland

Lake Marine outfall pipeline

Other (Description of other Dirty water dam. Cause for dust suppression)

2.3 Geographic location of the removal point

Latitude S 22 ° 09 ' 31 . 2 " or S ° or S °

Longitude E 29 ° 40 ' 42 . 8 " or E ° or E °

Datum Type: Cape (Modified Clarke 1880) WGS-84

2.4 Drainage Region Details: Quaternary Drainage Region A71L

3. DESCRIPTION OF WATER USE

3.1 Volume of underground water removed

a) Total volume of underground water removed per year 109500 Cubic metres

b) Maximum volume of underground water removed per day 500 Cubic metres

3.2 Disposal or discharge of underground water (mark with an X)

Water is discharged Please also complete form DW766/DW780

Water is disposed Please also complete form DW767/DW780

Water is stored Please also complete form DW762

4. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship			
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Sumame of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	From:	To:
Overlakte	T44946/2009	MS	12S	3+4					Sumame of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority		
									Local Authority (if applicable)	Magisterial District (if applicable)		
									Tribal Authority/Council (if applicable)			
Overlakte	T22619/2009	MS	12S	S					Sumame of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority		
									Local Authority (if applicable)	Magisterial District (if applicable)		
									Tribal Authority/Council (if applicable)			
									Sumame of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority		
									Local Authority (if applicable)	Magisterial District (if applicable)		
									Tribal Authority/Council (if applicable)			
									Sumame of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority		
									Local Authority (if applicable)	Magisterial District (if applicable)		
									Tribal Authority/Council (if applicable)			

5. AUTHORISATION DETAILS

5.1 Water use takes/took place in terms of the General Authorisation: Yes No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

5.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit

6. LIST OF SUPPORTING TECHNICAL INFORMATION

Mark with an X if these documents have been submitted with this application

- Environmental impact assessment
- Certified copy of of property zoning document
- Geohydrological report
- Topographic map (1:50 000) or orthophoto (1:10 000) of location of water removal

Other (specify other documents submitted with this form)

D	W	767	Dirty water dam	<input checked="" type="checkbox"/>
D	W	765	Dust suppression	<input checked="" type="checkbox"/>
D	W			<input type="checkbox"/>

7. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

7.1 Is this a 'succession in title' related water use transfer? Yes No

7.2 Succession transfer and source Part 2 details

Source Register number	WU Number	WU Status to be allocated	WU Close Date (if applicable) (ccyymmdd)

7.3 Billing Information

7.3.1 Applicant to be billed as An Individual Via a WUA / WSP

7.3.2 Billing frequency Annually Bi-annually Monthly

7.3.3 If to be billed via a WUA / WSP

Name of WUA / WSP

Is WUA / WSP a Billing Agent? Yes No

Billing Agent's Register Number

Start date (ccyymmdd) End date (ccyymmdd)

7.3.4 If this WU is to be billed via a Bulk Billing Party that is not a WSP / WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

7.4 Volume Reduction

	Existing Water Use	Proposed Water Use	Start date (ccyymmdd)	End date (ccyymmdd)
7.4.1	<input type="text"/> m ³ Per annum	<input type="text"/> m ³ Per annum	<input type="text"/>	<input type="text"/>
7.4.2	<input type="text"/> m ³ Per annum	<input type="text"/> m ³ Per annum	<input type="text"/>	<input type="text"/>

7.5 District Municipality

District Municipality Name (if applicable)

7.6 Late Registration Penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

R300.00 OR

10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

Waive penalty

File number (i.e. Office Hardcopy Register File No)

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the property owner is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the property owner is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we _____ (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Thumb print

Contact number during office hours

Designation of signatory

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Baldwin Khosa

Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

PAUL EKSTEN
7 LAFAYETTE MARÉ ST
POLOKWANE 0700

COMMISSIONER OF OATHS
KOMMISSARIS VAN EDE
ASSESSOR - LEKANA TRADING CC
LIMPOPO PROVINCE
REF NO: 9/1/8/2 POLOKWANE

02.05.2010.

4.2 Period of water use
 Date of first use or proposed first use (ccyymmdd) End date (if applicable) (ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)
 *WU /WSP: Transmission Loss (taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)			
a)	<input type="text" value="20100101"/>	<input type="text" value="109500"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input checked="" type="checkbox"/> Annually	<input type="text"/>
b)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>
c)	<input type="text"/>	<input type="text"/>	m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	<input type="text"/>

4.4 Estimated water abstraction pattern: in total cubic meters or % per month

Jan	<input type="text" value="300"/>	Apr	<input type="text" value="300"/>	Jul	<input type="text" value="300"/>	Oct	<input type="text" value="300"/>
Feb	<input type="text" value="300"/>	May	<input type="text" value="300"/>	Aug	<input type="text" value="300"/>	Nov	<input type="text" value="300"/>
Mar	<input type="text" value="300"/>	Jun	<input type="text" value="300"/>	Sep	<input type="text" value="300"/>	Dec	<input type="text" value="300"/>

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)
 Pump * Canal Gravity or outlet pipe Other (specify) **
 * Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.
 ** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider? WUA WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

5.2 If water use takes place in terms of the General Authorisation, mark with an X

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:	Applicable section of the act		
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation
 Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)
 Should this WU application be considered for RPF subsidy? Yes No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property			Unsurveyed property			Property Relationship Date	
	Title Deed Number Surveyor-General Cadastral Code Property Number Portion of property	T44946/2009 MS 125 3 + 4	Sumname of the Leader of Village, Community or Tribal Authority Initial of the Leader of Village, Community or Tribal Authority Local Authority (if applicable) Magisterial District (if applicable) Tribal Authority/Council (if applicable)	Title Deed Number Surveyor-General Cadastral Code Property Number Portion of property	T22619/2009 MS 125 5	Sumname of the Leader of Village, Community or Tribal Authority Initial of the Leader of Village, Community or Tribal Authority Local Authority (if applicable) Magisterial District (if applicable) Tribal Authority/Council (if applicable)	From:	To:
Overlakte	Title Deed Number	T44946/2009	Sumname of the Leader of Village, Community or Tribal Authority	Title Deed Number	T22619/2009	Sumname of the Leader of Village, Community or Tribal Authority		
	Surveyor-General Cadastral Code	MS	Initial of the Leader of Village, Community or Tribal Authority	Surveyor-General Cadastral Code	MS	Initial of the Leader of Village, Community or Tribal Authority		
	Property Number	125	Local Authority (if applicable)	Property Number	125	Local Authority (if applicable)		
Overlakte	Portion of property	3 + 4	Magisterial District (if applicable)	Portion of property	5	Magisterial District (if applicable)		
			Tribal Authority/Council (if applicable)			Tribal Authority/Council (if applicable)		
	Title Deed Number		Sumname of the Leader of Village, Community or Tribal Authority	Title Deed Number		Sumname of the Leader of Village, Community or Tribal Authority		
	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority		
	Property Number		Local Authority (if applicable)	Property Number		Local Authority (if applicable)		
	Portion of property		Magisterial District (if applicable)	Portion of property		Magisterial District (if applicable)		
			Tribal Authority/Council (if applicable)			Tribal Authority/Council (if applicable)		
	Title Deed Number		Sumname of the Leader of Village, Community or Tribal Authority	Title Deed Number		Sumname of the Leader of Village, Community or Tribal Authority		
	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority	Surveyor-General Cadastral Code		Initial of the Leader of Village, Community or Tribal Authority		
	Property Number		Local Authority (if applicable)	Property Number		Local Authority (if applicable)		
	Portion of property		Magisterial District (if applicable)	Portion of property		Magisterial District (if applicable)		
			Tribal Authority/Council (if applicable)			Tribal Authority/Council (if applicable)		

8.6 Late Registration Penalty

Is this a late registration? Yes No

If yes, mark with an X, the applicable penalty to be levied

- R300.00 OR
- 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

Waive penalty

File number

Water Use Register Number

Received by:

Surname Initials

Position / Rank

Signature

Captured on NRWU database (ccymmdd)

Capured by:

Surname Initials

Signature

Date stamp of receiving office