



## water & forestry

Department:  
Water Affairs & Forestry  
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?**  Yes  No  
 (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))  
 Licence number:  
              
 OR  
 Permit number:  
             
 OR  
 Exemption reference number:

**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 \_\_\_\_\_ (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.**

**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)

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- Urban / Domestic**
  - Sewage Treatment Works
  - Water Treatment Works

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- Industry**
  - Agroprocessing
  - Fertilisers
  - Metal Processing And Finishing
  - Textile
  - Power generation
  - Meat Processing
  - Manufacturing
  - Paper And Pulp
  - Winery
  - Other (please specify below)

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- 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**

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**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

**2.5.4 Volume of wastewater irrigated (cubic meters)**

Total volume of wastewater irrigated per year	<input type="text"/>
Maximum volume of wastewater irrigated on any given day	<input type="text"/>

**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"/>	<input type="text"/>	<input type="text"/>
February	<input type="text"/>	<input type="text"/>	<input type="text"/>
March	<input type="text"/>	<input type="text"/>	<input type="text"/>
April	<input type="text"/>	<input type="text"/>	<input type="text"/>
May	<input type="text"/>	<input type="text"/>	<input type="text"/>
June	<input type="text"/>	<input type="text"/>	<input type="text"/>
July	<input type="text"/>	<input type="text"/>	<input type="text"/>
August	<input type="text"/>	<input type="text"/>	<input type="text"/>
September	<input type="text"/>	<input type="text"/>	<input type="text"/>
October	<input type="text"/>	<input type="text"/>	<input type="text"/>
November	<input type="text"/>	<input type="text"/>	<input type="text"/>
December	<input type="text"/>	<input type="text"/>	<input type="text"/>

**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 (m <sup>3</sup> )	If Registered*	
				Register number	Water Use Number
	<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)	<input type="text"/>	Time Interval:	<input type="checkbox"/> Per Month	<input type="checkbox"/> Per Annum
Maximum irrigated 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	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)			
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)			

*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)			
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)			

2.5.8 Description of management measures		
Capacity for wastewater storage when irrigation is not possible (cubic meters)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is a storm water runoff collection system in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is a system for screening of suspended solids in place?	<input 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 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 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 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 type="checkbox"/> Yes	<input type="checkbox"/> No
Application of effluent follows principles of "beneficial use"	<input 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:

c) Distance to the nearest water resource (meters)

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**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

c) Distance to the nearest groundwater resource (meters)

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**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: 

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This Area/Field No. Area in Hectare(s): 

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Latitude 

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Longitude 

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Datum type  Cape (Modified Clarke 1880)  WGS-84

Latitude 

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Datum type  Cape (Modified Clarke 1880)  WGS-84

Latitude 

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Longitude 

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Datum type  Cape (Modified Clarke 1880)  WGS-84



Latitude   °   '   " or   °   '   " or   °   '   "

Longitude   °   '   " or   °   '   " or   °   '   "

Datum type  Cape (Modified Clarke 1880)  WGS-84

Area/Field No:     This Area/Field No. Area in Hectare(s):

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

Area/Field No:     This Area/Field No. Area in Hectare(s):

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  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

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	Sumame of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	From:	To:
				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)				
				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)				





5.4.3 **Billing Frequency:**  Annually  Bi-annually  Monthly

5.4.4 **If to be billed via WUA/WSP:**

Name of WUA/WSP \_\_\_\_\_

Is WUA/WSP a Billing Agent?  Yes  No

Billing Agent's Register Number 

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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 

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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)

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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:		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			

**5.7.2 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)