

# Government Gazette Staatskoerant

REPUBLIC OF SOUTH AFRICA  
REPUBLIEK VAN SUID-AFRIKA

Vol. 562

Pretoria, 4 April 2012

No. 35223

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## GENERAL NOTICE

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### NOTICE 288 OF 2012

#### DEPARTMENT OF WATER AFFAIRS

#### NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

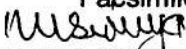
#### DRAFT GENERAL AUTHORISATION FOR THE TAKING AND STORAGE OF WATER

I, Maxwell Sirenya, Director-General of the Department of Water Affairs and duly authorised thereto under section 63 of the National Water Act, 1998 (Act No. 36 of 1998), in terms of section 39(4) of that Act hereby publish for public comment the draft general authorisation for the taking and storing of water, in the Schedule, to be issued under section 39(1) of that Act in substitution of the general authorisation for the taking of water from a water resource and storage of water, published under Government Notice No. 399 of 26 March 2004.

Any person who wishes to submit written representations or comments in connection with the draft general authorisation for the taking and storage of water is invited to do so within 60 days of publication of this notice. All representations and comments must be submitted in writing to:

Deputy-Director: Abstraction and Storage  
Department of Water Affairs  
Sedibeng Building 337  
185 Schoeman Street  
Private Bag X313  
Pretoria  
0001

Facsimile: 012 308 3418

  
Maxwell Sirenya  
Director-General: Water Affairs  
Date: 28/03/2012

#### Schedule

#### Proposed general authorisation for the taking and storing of water

This general authorisation is issued in terms of section 39 of the National Water Act, 1998 (Act 36 of 1998).

#### 1. Definitions

Any term used in this notice which is defined in the National Water Act has the same meaning as defined in the Act unless stated differently in the notice.

1. *The Act* means the National Water Act, 1998 (Act 36 of 1998).
2. *Groundwater resource* for the purposes of this notice excludes alluvial aquifers directly connected to a stream.
3. *A property* means land registered separately in a Deeds Office.
4. *Regional Head* means the head of the regional office of the Department of Water Affairs that manages the catchment in which a water use takes place.

5. *Surface water resource* for the purposes of this notice means a stream or water flowing over land, regardless of whether the flow is intermittent, or an alluvial aquifer directly connected to a stream or an in-channel dam.
6. *Year* means any period of 12 consecutive months.

## **2. Application of the notice**

### **2.1. When the authorisation comes into effect**

This authorisation will come into effect on 1 July 2012.

### **2.2. Duration of the authorisation**

This authorisation will remain in effect until it is withdrawn in total or for specified areas or water resources by notice in the Government Gazette.

### **2.3. Geographical area and water resources to which the authorisation applies**

Except where stated differently in the notice this authorisation applies to all land and all water resources in South Africa, subject to the following exclusions:

1. No water may be taken from a pan or within a 750 metre radius from the boundary of a wetland or estuary.
2. No groundwater may be taken within a 750 metre radius from the boundary of a wetland or estuary, within a 100 metre radius from the delineated riparian edge of a water course or a state dam or within a 500 metre radius of a state dam wall.

### **2.4. Compliance with the National Water Act**

This authorisation does not replace any water use entitlement recognised under the Act.

A person who takes or stores water in terms of this authorisation is exempt from the requirements of section 22(2)(e) of the Act.

### **2.5. Relation to other entitlements to take or store water**

A person who is otherwise entitled to take water from a surface water resource or from a groundwater resource or store water on a property or piece of communal land may not take more water from the surface water resource or the groundwater resource or store more water on the property or piece of land than the volumes that the person is otherwise entitled to or the volumes authorised in this notice, whichever is the largest.

## **3. Taking of water from a surface water resource**

A person who has lawful access to a property or a piece of communal land may on that property or piece of land take water from a surface water resource on or along the boundary of the property or piece of land, up to the maximum annual volume and maximum abstraction rate and during the months given in *Table 1: Surface water abstraction and storage volumes* for the catchment in which the resource is located, subject to the following specific conditions and the general conditions in this notice.

### **3.1. Specific conditions for taking of water from a surface water resource**

1. The rate at which the water is taken may not be more than 5% of the flow rate in a stream at the abstraction point when the water is taken.
2. The water taken on a property or piece of land in terms of this authorisation may be used on another property or piece of land.

3. Up to the maximum annual volume given for the resource in *Table 1: Surface water abstraction and storage volumes* may be taken for use on one property or piece of land.

#### **4. Taking of water from a groundwater resource**

A person who owns or occupies a property or a piece of communal land may on that property or piece of land take water from a groundwater resource up to a maximum annual volume based on the size of the property or piece of land, the abstraction rate and the calculation method given in *Table 2: Groundwater abstraction rates*, subject to the following specific conditions and the general conditions in this notice.

##### **4.1. Specific conditions for taking of groundwater**

1. No more than 40 000 cubic meters may be taken per year on a property.
2. The water may only be used on the property or piece of land on which it is taken.

#### **5. Storing of water**

A person who owns or occupies a property or piece of communal land may on the property or piece of land store water not containing waste up to the maximum volume given in *Table 1: Surface water abstraction and storage volumes* for the catchment in which the stored water is taken, subject to the following specific conditions and the general conditions in this notice.

##### **5.1. Specific conditions for storing of water**

1. Water may only be stored off-channel.
2. Storage works must have outlet works that enable the full storage volume to be released within 14 days.

#### **6. General conditions**

1. A person may only take or store water if that person is also entitled to all water uses associated with the activity for which the water is taken or stored, including impeding or diverting the flow of water in a watercourse and altering the bed, banks, course or characteristics of a watercourse.
2. A person may only take a sustainable volume of water and only at a sustainable rate, taking into account the capacity of the water resource, the in-stream flow requirements of the relevant water resource and the needs of other users.
3. The volume of water taken must be measured and recorded on each day that water is taken. The volume of water stored must be measured and recorded at the end of each month. The records must be kept for a minimum of five years and must be made available to officials of the responsible authority upon request.
4. The water taken and stored must be used efficiently.
5. The water user must investigate and apply all reasonable water conservation measures.

#### **7. Registration of water use**

1. A person who takes more than 10 cubic metres of water from a surface water resource or 10 cubic metres of water from a groundwater resource per day on average over a year on a property or piece of land or stores water must register the water use with the responsible authority.
2. The taking or storing of water that must be registered may only be exercised if the water use has been registered.

3. The water uses will be considered to be registered when the responsible authority has issued a registration certificate.

**8. Payment of charges**

The water uses authorised in this notice are subject to the payment of charges in terms of the pricing strategy established in terms of section 56 of the Act.

## Appendix A. Surface water abstraction and storage

Table 1: Surface water abstraction and storage volumes

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
WMA 1: Limpopo					
A4	Matlabas, Mokolo	2 000	1	whole year	2 000
A5	Lephalala	2 000	1	whole year	2 000
A6	Mogalakwena	2 000	1	whole year	2 000
A7	Sand	2 000	1	whole year	2 000
A8	Nzhelele, Nwanedzi	2 000	1	whole year	2 000
WMA 2: Levuvhu and Letaba					
A	Luvuvhu, Mutale	2 000	1	whole year	2 000
B	Shingwedzi, Letaba	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
WMA 3: Crocodile (West) and Marico					
A	Crocodile, Marico	2 000	1	whole year	2 000
D	Upper Molopo	2 000	1	whole year	2 000
WMA 4: Olifants					
B	Olifants	2 000	1	whole year	2 000
WMA 5: Inkomati					
W	Usutu (small area north of Swaziland)	2 000	1	whole year	2 000
X	Inkomati, Crocodile, Sabie	2 000	1	whole year	2 000
WMA 6: Usutu to Mhlatuze					
W11	Mhlatuze	20 000	4	December to April	20 000
W12	Mhlatuze	2 000	1	whole year	2 000



Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
W13	Mhlatuze	20 000	4	December to April	20 000
W21A	Mfolozi	10 000	2	December to April	10 000
W21B to W21L	Mfolozi	80 000	16	December to April	80 000
W22	Mfolozi	80 000	16	December to April	80 000
W23	Mfolozi	80 000	16	December to April	80 000
W31A to W31H	Mkuze	40 000	8	December to April	40 000
W31J to W31L	Mkuze	2 000	1	whole year	2 000
W32	Mkuze	2 000	1	whole year	2 000
W41	Pongola	40 000	8	December to April	40 000
W42	Pongola	40 000	8	December to April	40 000
W43C	Pongola	2 000	1	whole year	2 000
W43E	Pongola	2 000	1	whole year	2 000
W43F	Pongola	20 000	4	December to April	20 000
W44	Pongola	2 000	1	whole year	2 000
W45	Pongola	20 000	4	December to April	20 000
W51	Upper Usutu	10 000	2	December to April	10 000
W52	Upper Usutu	10 000	2	December to April	10 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
W53	Upper Usutu	10 000	2	December to April	10 000
W54	Upper Usutu	10 000	2	December to April	10 000
W55	Upper Usutu	10 000	2	December to April	10 000
W56	Upper Usutu	10 000	2	December to April	10 000
W57	Upper Usutu	20 000	4	December to April	20 000
W70	Mkuze	2 000	1	whole year	2 000
<b>WMA 7: Thukela</b>					
V11A to V11E	Upper Tukela	2 000	1	whole year	2 000
V11F	Upper Tukela	40 000	8	December to April	40 000
V11G to V11J	Upper Tukela	2 000	1	whole year	2 000
V11K to V11L	Upper Tukela	40 000	8	December to April	40 000
V11M	Upper Tukela	80 000	16	December to April	80 000
V12	Upper Tukela	80 000	16	December to April	80 000
V13	Upper Tukela	10 000	2	December to April	10 000
V14	Upper Tukela	80 000	16	December to April	80 000
V20	Mooi, Sundays	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
V31A	Buffalo	2 000	1	whole year	2 000
V31B to V31D	Buffalo	40 000	8	December to April	40 000
V31E	Buffalo	10 000	2	December to April	10 000
V31F to V31K	Buffalo	40 000	8	December to April	40 000
V32A to V32D	Buffalo	40 000	8	December to April	40 000
V32E	Buffalo	10 000	2	December to April	10 000
V32F to V32H	Buffalo	40 000	8	December to April	40 000
V33	Buffalo	40 000	8	December to April	40 000
V40	Lower Tukela	80 000	16	December to April	80 000
V50	Lower Tukela	80 000	16	December to April	80 000
V60	Mooi, Sundays	40 000	8	December to April	40 000
V70	Mooi, Sundays	40 000	8	December to April	40 000
<b>WMA 8: Upper Vaal</b>					
C	Vaal	2 000	1	whole year	2 000
<b>WMA 9: Middle Vaal</b>					

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
C	Vaal	2 000	1	whole year	2 000
<b>WMA 10: Lower Vaal</b>					
C	Vaal	2 000	1	whole year	2 000
D	Molopo	2 000	1	whole year	2 000
<b>WMA 11: Mvoti to Umzimkulu</b>					
T40	Mtamvuna	80 000	16	December to April	80 000
T51	Umzimkulu	80 000	16	December to April	80 000
T52	Umzimkulu	80 000	16	December to April	80 000
U10	Mkomazi	80 000	16	December to April	80 000
U20	Mgeni	2 000	1	whole year	2 000
U30A to U30B	Mdloti	20 000	4	December to April	20 000
U30C to U30E	Tongati	40 000	8	December to April	40 000
U40	Mvoti	40 000	8	December to April	40 000
U50	Coastal rivers	40 000	8	December to April	40 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
U60A to U60B	Mlazi	2 000	1	whole year	2 000
U60C to U60F	Mlazi	40 000	8	December to April	40 000
U70A to U70B	Lovu	40 000	8	December to April	40 000
U70C to U70E	Lovu	80 000	16	December to April	80 000
U70F	Lovu	40 000	8	December to April	40 000
U80	Coastal rivers	80 000	16	December to April	80 000
<b>WMA 12: Mzimvubu to Keiskamma</b>					
R10A to R10B	Keiskamma	2 000	1	whole year	2 000
R10C to R10M	Keiskamma, Tyume, Nyulutsi, Mozana	80 000	16	whole year	80 000
R20	Cwengcwe, Buffalo, Mgqakwebe	2 000	1	whole year	2 000
R30A to R30D	Kwenxura, Quko, Morgan's Bay, Cwili, Kwelera, Cintsa, Cefane, Ngculu, Gqunube	40 000	8	whole year	40 000
R30E	Nahoon	2 000	1	whole year	2 000
R30F	Nahoon, Qinira	40 000	8	March to December	40 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
R40	Ncera, Mlele, Mlantsi, Mgwenyana, Gxulu, Goda, Tyolomnqa, Kiwane	80 000	16	March to December	80 000
R50	Bira, Gqutywa, Mpekweni, Mtati, Mgwala	80 000	16	March to December	80 000
S10A to S10E	Grootvlei, Wit-Kei	2 000	1	whole year	2 000
S10F to S10J	Cacadu, Wit-Kei	80 000	16	January to April	80 000
S20A to S20C	Doring, Guba, Indwe	2 000	1	whole year	2 000
S20D	Indwe	80 000	16	January to April	80 000
S31A to S31E	Hex, Klaas Smits, Heuningklip, Lesseyton	80 000	16	January to April	80 000
S31F	Komani	2 000	1	whole year	2 000
S31G	Klaas Smits	80 000	16	January to April	80 000
S32A to S32C	Swart-Kei	80 000	16	January to April	80 000
S32D to S32G	Klipplaat, Oskraal	2 000	1	whole year	2 000
S32H to S32M	Swart-Kei, Mvane, Papkuilsfontein	80 000	16	January to April	80 000
S40A	Thorn	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
S40B	Little Thomas	80 000	16	Feb to May	80 000
S40C	Thomas	80 000	16	Feb to May	80 000
S40D to S40F	Groot-Kei	80 000	16	January to April	80 000
S50A to S50F	Tsomo, Xentu, Cala, Ncuncuzo	2 000	1	whole year	2 000
S50G	Tsomo	80 000	16	October to May	80 000
S50H to S50J	Ngcongcolora, Tsomo	80 000	16	October to May	80 000
S60A to S60C	Kubusi, Toise	2 000	1	whole year	2 000
S60D to S60E	Mgwali, Kubusi	80 000	16	October to April	80 000
S70A to S70B	Groot-Kei	80 000	16	whole year	80 000
S70C to S70D	kuNtseshe, Xilinx	2 000	1	whole year	2 000
S70E	iCegcuwana	80 000	16	Mar to Nov	80 000
S70F	Groot-Kei, Tyityaba	80 000	16	whole year	80 000
T11A	Slang	80 000	16	January to April	80 000
T11B to T11H	Xuka, Ngancule, Mbhashe	80 000	16	October to April	80 000
T12	Mgwali, Qumanco, Tora	80 000	16	October to April	80 000
T13	Mbhashe, Ncihana	80 000	16	October to April	80 000
T20A to T20B	Mthatha	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
T20C to T20G	Mthatha, Corana, Ngqungqu	80 000	16	October to April	80 000
T31	Mzimvubu, Krom, Riet, Tswereka, Mkemane	80 000	16	January to April	80 000
T32	Mzintlava, Droewig, Mvalweni, Mzintlavana	80 000	16	January to April	80 000
T33	Makomorin, Seeta, Morulane, Kinira, Mzimvubu	80 000	16	January to April	80 000
T34	Vuvu, Phiri-e-ntso, Tinana, Thina, Luzi, Qwidlana, Qhanqu	80 000	16	January to April	80 000
T35	Tsitsana, Pot, Mooi, iTsitsa, Gqukunqa, Inxu, Culunca	80 000	16	October to April	80 000
T36	Mzintshana, Mzimvubu	80 000	16	October to May	80 000
T60	Mpahlane, Nqabeni, Mtentshwana, Mtentu, Msikaba, Xura, Mkozi, Mzizangwa, Mntafufu	80 000	16	September to May	80 000



Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
T70	eMhlanga, Mngazi, Mgwenyana, Mtumbane, Mngazana, Mnenu, Sinangwana, Mngazana, Mtakatye, Mdumbi, Lwandile, Ludaka	80 000	16	September to May	80 000
T80	Mpako, Mtonjane, Nenga, Mapuzi, Bulungula, KuAmanzimnyama, Nqakanqa, Mncwasa, Xorana, Mbanyana, Hobeni, KuBhula, Ntlonyane, Xora	80 000	16	whole year	80 000
T90	Ntshatshongo, Nqabarana, Nqabara, Qingqala, Ngomane, Ngoma, Mendu, Shixini, Kwgoqo, KuNocekedwa, Mcucu, Qora, Qwaninga, Ngxutyana, Ngqusi, iNxaxo, Cebe, Gqunqe, Ngqwara, Sihlontweni, Nebelele, Qolora, Khoboqaba	80 000	16	whole year	80 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
WMA 13: Upper Orange					
C	Riet, Modder	2 000	1	whole year	2 000
D	Kraai, Caledon, Orange	2 000	1	whole year	2 000
WMA 14: Lower Orange					
D4	Orange	2 000	1	whole year	2 000
D5	Orange tributaries	2 000	1	whole year	2 000
D6	Orange tributaries	2 000	1	whole year	2 000
D7	Orange	2 000	1	whole year	2 000
D8	Orange	2 000	1	whole year	2 000
F1	Coastal rivers	2 000	1	whole year	2 000
F2	Coastal rivers	2 000	1	whole year	2 000
F3	Coastal rivers	2 000	1	whole year	2 000
F4	Coastal rivers	2 000	1	whole year	2 000
F5	Coastal rivers	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
F6	Coastal rivers	2 000	1	whole year	2 000
<b>WMA 15: Fish to Tsitsikamma</b>					
K80A to K80D	Cold Stream, Lottering, Elandsbos, Kleinbos, Witteklip, Storms, Sanddrif, Kruis, Elands, Groot, Klip, Nuwejaar, Eerste	80 000	16	June to November	80 000
K80E to K80F	Klipdrif, Kaapsedrif, Klasies, Tsitsikamma, Klipdrift, Slang	2 000	1	whole year	2 000
K90A to K90F	Krom, Diep, Seekoei, Swart	2 000	1	whole year	2 000
K90G	Kabeljous	80 000	16	June to December	80 000
L11	Sout, Platdoring	2 000	1	whole year	2 000
L12	Amos, Skilpadkop, Sout	2 000	1	whole year	2 000
L21	Brak, Snyderskraal, Buffels	2 000	1	whole year	2 000
L22	Buffels, Juriesfontein se, Sarels, Tulp Leegte	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
L23	Kariega, Ganna Leegte, Platkuil Spruit	2 000	1	whole year	2 000
L30	Kraai, Witkoppies se Loop, Sout, Groot	40 000	8	March to April	40 000
L40	Plessis	40 000	8	March to April	40 000
L50	Sandpoort, Groot	40 000	8	March to April	40 000
L60	Heuningklip	40 000	8	March to April	40 000
L70	Sandpoort, Groot, Haaspoort Spruit, Noagas	40 000	8	March to April	40 000
L81	Baviaanskloof	2 000	1	whole year	2 000
L82A to L82H	Groot, Kouga, Joubertskraal	2 000	1	whole year	2 000
L82J	Doringkraal	40 000	8	July to December	40 000
L90A to L90B	Gamtoos, Klein	40 000	8	July to December	40 000
L90C	Gamtoos, Loeriespruit, Geelhoutboom	2 000	1	whole year	2 000
M10A	KwaZungu	2 000	1	whole year	2 000
M10B to M10D	Elands, Swartkops, Swartkops, Chatty	80 000	16	June to November	80 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
M20	Bakens, Van Stadens, Maitland	2 000	1	whole year	2 000
M30	Coega	2 000	1	whole year	2 000
N11	Ruigtefontein Slood, Paardekloof Stroom	2 000	1	whole year	2 000
N12	Wilgerbos, Pienaars, Gats	2 000	1	whole year	2 000
N13	Moordenaars, Swart	2 000	1	whole year	2 000
N14	Kraai, Sand, Kamdeboo	2 000	1	whole year	2 000
N21	Karee, Melk, Plat, Sondags	2 000	1	whole year	2 000
N22	Lootskloof, Brak, Rietgat, Sondags	2 000	1	whole year	2 000
N23	Skoenmakers, Sondags	2 000	1	whole year	2 000
N24	Bul, Sondags	2 000	1	whole year	2 000
N30	Groot Blyde, Voël	2 000	1	whole year	2 000
N40A	Sondags	2 000	1	whole year	2 000
N40B to N40F	Kariega, Sondags, Coerney, Sondags, Grootkloof	80 000	16	January to April	40 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
P10	New Years, Gxetu, Boesmans, Boesmans, Camtarha, Bega	2 000	1	whole year	2 000
P20	Boknes, Diepkloof	2 000	1	whole year	2 000
P30	Kariega	2 000	1	whole year	2 000
P40	Bloukrans, Lushington, Kasouga, Kowie, Riet, Wes-Kleinmonde, Oos-Kleinmonde	2 000	1	whole year	2 000
Q11	Osnek Spruit, Groot-Brak, Rooi Spruit	2 000	1	whole year	2 000
Q12	Hongerskloof, Bulhoek Spruit, Lesfontein Spruit	2 000	1	whole year	2 000
Q13	Aalwynsfontein Spruit, Groot-Brak, Groot-Vis	2 000	1	whole year	2 000
Q14	Vanwyks, Klein-Brak, Oompies-Noord	2 000	1	whole year	2 000
Q21	Izaks, Groot-Vis	2 000	1	whole year	2 000
Q22	Draai, Willem Burgers	2 000	1	whole year	2 000
Q30	Flip, Kareebos, Wilgebooms, Groot-Vis	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
Q41	Tarka, Riet, Poort	2 000	1	whole year	2 000
Q42	Leeufontein Slood, Elands	2 000	1	whole year	2 000
Q43	Doring, Vlekpoort	2 000	1	whole year	2 000
Q44	Tarka	2 000	1	whole year	2 000
Q50	Riet, Kariëga, Groot-Vis	2 000	1	whole year	2 000
Q60	Baviaans	2 000	1	whole year	2 000
Q70	Groot-Vis	2 000	1	whole year	2 000
Q80	Groot-Rietvlei Spruit, Droe, Klein-Vis, Naudes, Brak	2 000	1	whole year	2 000
Q91	Groot-Vis, Bampie Spruit	2 000	1	whole year	2 000
Q92	Tierkloof, Koonap, Cowie, Waterkloof, eNyara	2 000	1	whole year	2 000
Q93	Groot-Vis, Eccca, Groot-Vis, Kap	80 000	16	October to April	80 000
Q94	Kat, Balfour, Blinkwater	2 000	1	whole year	2 000
<b>WMA 16: Gouritz</b>					
H80A to H80C	Duivenhoks	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
H80D to H80F	Duivenhoks	80 000	16	whole year	40 000
H90A to H90C	Goukou	2 000	1	whole year	2 000
H90D to H90E	Goukou	80 000	16	whole year	40 000
J11A to J11H	Buffels	80 000	16	whole year	40 000
J11J	Buffels	80 000	16	whole year	40 000
J11K	Buffels	80 000	16	whole year	40 000
J12A to J12D	Touws	2 000	1	whole year	2 000
J12E to J12M	Touws	80 000	16	whole year	40 000
J13	Groot	80 000	16	whole year	40 000
J21A	Gamka	80 000	16	whole year	40 000
J21B to J21E	Gamka	80 000	16	whole year	40 000
J22	Leeuw	80 000	16	whole year	40 000
J23A to J23D	Gamka	80 000	16	whole year	40 000
J23E	Gamka	2 000	1	whole year	2 000
J23F	Gamka	80 000	16	whole year	40 000
J23G to J23J	Gamka	80 000	16	whole year	40 000
J24	Dwyka	80 000	16	whole year	40 000
J25	Gamka	2 000	1	whole year	2 000



Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
J31	Olifants	2 000	1	whole year	2 000
J32	Tarka	2 000	1	whole year	2 000
J33	Olifants	2 000	1	whole year	2 000
J34	Kammanassie	2 000	1	whole year	2 000
J35A	Olifants	2 000	1	whole year	2 000
J35B to J35F	Olifants	80 000	16	whole year	40 000
J40A to J40B	Gouritz	80 000	16	whole year	40 000
J40C	Gouritz	2 000	1	whole year	2 000
J40D to J40E	Gouritz	80 000	16	whole year	40 000
K10A	Coastal rivers	80 000	16	whole year	40 000
K10B	Coastal rivers	2 000	1	whole year	2 000
K10C to K10D	Coastal rivers	80 000	16	whole year	40 000
K10E to K10F	Coastal rivers	2 000	1	whole year	2 000
K20	Coastal rivers	2 000	1	whole year	2 000
K30A to K30B	Coastal rivers	2 000	1	whole year	2 000
K30C to K30D	Coastal rivers	80 000	16	whole year	40 000
K40	Coastal rivers	80 000	16	whole year	40 000
K50-K60	Coastal rivers	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
K70	Coastal rivers	80 000	16	whole year	40 000
<b>WMA 17: Olifants/Doorn</b>					
E10	Olifants	2 000	1	whole year	2 000
E21	Koue Bokkeveld	80 000	16	whole year	40 000
E22-E24	Doring	80 000	16	whole year	40 000
E31-E32	Knersvlakte	80 000	16	whole year	40 000
E33A to E33F	Olifants, Knersvlakte	80 000	16	whole year	40 000
E33G to E33H	Olifants, Knersvlakte	2 000	1	whole year	2 000
E40	Doring	80 000	16	whole year	40 000
F60	Knersvlakte	80 000	16	whole year	40 000
G30	Sandveld	80 000	16	whole year	40 000
<b>WMA 18: Breede</b>					
G40B	Buffels	10 000	2	whole year	10 000
G40C	Palmiet	2 000	1	whole year	2 000
G40D	Palmiet	10 000	2	whole year	10 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
G40E to G40K	Bot, Onrus, Klein	2 000	1	whole year	2 000
G40L	Klein	10 000	2	whole year	10 000
G40M	Uilskraal	2 000	1	whole year	2 000
G50A	Ratel, Haelkraal	10 000	2	whole year	10 000
G50B to G50C	Kars	2 000	1	whole year	2 000
G50D	Kars	10 000	2	whole year	10 000
G50E	Kars	2 000	1	whole year	2 000
G50F to G50J	Kars, De Hoopvlei, Pottebergs	10 000	2	whole year	10 000
G50K	Pottebergs	2 000	1	whole year	2 000
H10A to H10C	Breede	2 000	1	whole year	2 000
H10D to H10E	Breede	10 000	2	whole year	10 000
H10F to H10H	Breede	2 000	1	whole year	2 000
H10J	Breede	40 000	8	whole year	40 000
H10K	Breede	20 000	4	whole year	20 000
H10L	Breede	2 000	1	whole year	2 000
H20	Hex	2 000	1	whole year	2 000
H30	Keisie	2 000	1	whole year	2 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
H40A	Breede	10 000	2	whole year	10 000
H40B to H40L	Breede	2 000	1	whole year	2 000
H50	Breede	2 000	1	whole year	2 000
H60A to H60B	Riviersonderend	20 000	4	whole year	20 000
H60C	Riviersonderend	2 000	1	whole year	2 000
H60D	Riviersonderend	10 000	2	whole year	10 000
H60E	Riviersonderend	2 000	1	whole year	2 000
H60F	Riviersonderend	10 000	2	whole year	10 000
H60G	Riviersonderend	20 000	4	whole year	20 000
H60H	Riviersonderend	10 000	2	whole year	10 000
H60J	Riviersonderend	2 000	1	whole year	2 000
H60K	Riviersonderend	10 000	2	whole year	10 000
H60L	Riviersonderend	20 000	4	whole year	20 000
H70A to H70C	Breede	2 000	1	whole year	2 000
H70D to H70F	Breede	20 000	4	whole year	20 000
H70G to H70H	Breede	2 000	1	whole year	2 000
H70J to H70K	Breede	20 000	4	whole year	20 000

Catchment	Main river	Maximum volume of surface water that may be abstracted on each property or piece of land	Maximum rate at which surface water may be abstracted on each property or piece of land	Months in which water may be abstracted	Maximum storage on each property or piece of land
		cubic metres per year	litres per second		cubic metres
WMA 19: Berg					
G10	Berg	2 000	1	whole year	2 000
G21	Berg	2 000	1	whole year	2 000
G22	Cape Town area	2 000	1	whole year	2 000
G30A	Berg	2 000	1	whole year	2 000
G40A	Cape Town area	2 000	1	whole year	2 000

## Appendix B. Groundwater abstraction

Table 2: Groundwater abstraction rates

The maximum volume of water that may be taken from groundwater resources on each property or piece of land in a catchment is equal to the size of the property or piece of land multiplied by the rate indicated in the heading of the column in which the catchment is listed.

### Abstraction rate (cubic metres per hectare per year)

0	45	75	150	275	400
<b>Drainage areas</b>					
<b>WMA 1: Limpopo</b>					
A42A – A42C A42E A50A A50B A50C A61A – A61J A62A A62G A63C A63E A71A A71E – A71G	A41C – A41E A42J A50G – A50J A62J A63A – A63B A63D A71B – A71D A71H – A71L A72A – A72B A80A – A80J	A41A – A41B A42D A42F – A42H A50D – A50F A62B – A62F A62H			
<b>WMA 2: Levuvhu &amp; Letaba</b>					
	A91A – A91K A92A – A92D B81A – B81J B82A – B82J B83A – B83E B90A – B90H				
<b>WMA 3: Crocodile (West) &amp; Marico</b>					
A21A – A21C A21E A22A A23A A23D A23E	A10A – A10C A21D A21F – A21L A22B – A22J A23B – A23C A23F – A23L	D41A			

**Abstraction rate (cubic metres per hectare per year)**

0	45	75	150	275	400
<b>Drainage areas</b>					
A31A – A31E	A24A – A24J A31F – A31J A32A – A32E				
<b>WMA 4: Olifants</b>					
B11H – B11K B20A – B20J B31A B31E B31F B31J B41F – B41J B42A – B42H B51E B51G B60A – B60C B60E – B60G	B11A – B11G B11L B12A – B12E B31B – B31D B31G – B31H B32A – B32J B41A – B41E B41H B41K B51A – B51C B51F B51H B52A – B52J B60D B60H B60J B71A – B71J B72A – B72K B73A – B73J				
<b>WMA 5: Inkomati</b>					
X11D X11E – X11J X12B X12C X14A – X14B	X13L X14H X21A – X21G X21J X22A – X22B	X11A – X11C X11K X12A X12D – X12K X13J – X13K			
X14E – X14G X23G – X23H X24D	X22D – X22K X24A – X24C X24E – X24H X31A – X31M X32A – X32J X33A – X33D X40A – X40D	X21H – X21K X22C X23A – X23F			

**Abstraction rate (cubic metres per hectare per year)**

0	45	75	150	275	400
<b>Drainage areas</b>					
<b>WMA 6: Usutu to Mhlatuze</b>					
		W21A – W12F W22A – W22C W22E – W22L W31A – W31H W31K W32D W41A – W41G W42A – W42M W44A – W44E W51A – W51F W52A – W52D W53A – W53E W54A – W54E W55A – W55D W56A – W56B	W11A – W11C W12A – W12C W13A W21G – W21L W22D		W12D – W12J W13B W23A – W23D W31J W31L W32A – W32C W32E – W32H W43F W45A W45B W57J W57K W70A
<b>WMA 7: Thukela</b>					
	V11A – V11M V12A – V12G V13A – V13E V14A – V14E V20A – V20J V31A – V31C V31E – V31F V60A V60B V60J V60K V70A – V70G	V31D V31G – V31K V32A – V32H V33A V33B V60C – V60H	V33C V33D V40A – V40E V50A – V50D		
<b>WMA 8: Upper Vaal</b>					
C23E – C23G	C13A C13B	C11A – C11M C12A – C12L C13C – C13H C21A – C21G C22A – C22K C23A – C23D			



**Abstraction rate (cubic metres per hectare per year)**

0	45	75	150	275	400
<b>Drainage areas</b>					
		C23H – C23L C81A – C81M C82A – C82H C83A – C83M			
<b>WMA 9: Middle Vaal</b>					
C24C – C24F	C24A C24B C24G C24H C60G C70K	C24J C25A – C25F C41A – C41J C42A – C42L C43A – C43D C60A – C60F C60H C60J C70A C70B – C70J			
<b>WMA 10: Lower Vaal</b>					
C31A C31F C91D C91E D41C – D41F D41H – D41K D41M D42C D42D D73A D73C – D73E	C91A – C91C D41G D41L D73B	C31B – C31E C32A – C32D C33A – C33C C92A C92B D41B			
<b>WMA 11: Mvoti to Mzimkhulu</b>					
	U10A – U10K U20A – U20E U20H U40A U40B U60A U70A	T40A – T40C T51A – T51J T52A – T52H		U10L U10M U20F U20G U20J – U20M U30A – U30E U40C – U40J U50A	

**Abstraction rate (cubic metres per hectare per year)**

0	45	75	150	275	400
<b>Drainage areas</b>					
				U60B – U60F U70B – U70F U80A – U80L T40D – T40G T52J – T52M	
<b>WMA 12: Mzimvubu to Keiskamma</b>					
	S31A – S31G S32C S32G – S32K T20D – T20F T32E – T32H T33H – T33K T34J T34K T35L T35M T70A T70E T80C	R10A – R10M R20A – R20G R30A – R30F R40A – R40C R50A R50B S10A – S10J S20A – S20D S32A – S32F S32L S32M S40A – S40F S50A – S50J S60A – S60E S70A – S70F T11A – T11H T12A – T12G T13A – T13E T20A – T20C T20G T31A – T31J T32A – T32D T33A – T33G T34A – T34H T35A – T35K T36A T36B T60B T60E T60K T70B – T70D T70F T70G		T60A T60C T60D T60F – T60J	

**Abstraction rate (cubic metres per hectare per year)**

0	45	75	150	275	400
<b>Drainage areas</b>					
		T80A T80B T80D T90A – T90G			
<b>WMA 13: Upper Orange</b>					
C51J – C51M C52G – C52L D33A D33C – D33E D33K	C51H D12A D14B – D14K D15G D15H D18K D18L D21A D21C – D21E D21H D22C D23F D23G D24A D31A – D31E D32H – D32K D33B D33F – D33J D34C – D34G D35B D35C	C51A – C51G C52A – C52F D12B – D12F D13A – D13M D14A D21F D21G D22A D22B D22D D22G D22H D22L D23A D23C D23D D23E D23H D23J D24B – D24L D32A – D32G D34A D34B D35A D35D – D35K			
<b>WMA 14: Lower Orange</b>					
D42A – D42E D51C D53D – D53J D54A – D54G D55L D55M D56H	D51A D51B D52A – D52F D53A – D53C D55A – D55K D56A – D56G D61A – D61M	C92C D71A D71B			

**Abstraction rate (cubic metres per hectare per year)**

0	45	75	150	275	400
<b>Drainage areas</b>					
D56J	D62F – D62J				
D57A – D57E	D71C				
D58A – D58C	D71D				
D62A – D62E	D72A – D72C				
D73C – D73F	D73B				
D81A – D81G	F30C				
D82A – D82L	F50B				
F10A – F10C	F50C				
F20A – F20E	F50E				
F30A					
F30B					
F30D – F30G					
F40A – F40H					
F50A					
F50D					
F50F					
F50G					
<b>WMA 15: Fish to Tsitsikamma</b>					
L11E – L11G	L11A – L11D	N40D		K80A – K80F	
L12A – L12C	L12D	N40F		K90A – K90G	
L22B	L21A – L21F	P10A		L70G	
L23A	L22A	P10B		L81A – L81D	
M10C	L22C	P10D – P10G		L82A – L82J	
M10D	L22D	P20A		L90A – L90C	
M20A	L23B – L23D	P20B		M10A	
M30A	L30A – L30D	P30A – P30C		M10B	
M30B	L40A	P40A – P40D		M20B	
N14A – N14C	L40B	Q11A			
N21A	L50A	Q91B			
N22A – N22E	L50B	Q91C			
N23B	L60A	Q92A			
N24A – N24D	L60B	Q92B			
N22E	L70A – L70F	Q92D			
N23B	N11A	Q92E			
N24A – N24D	N11B	Q92G			
N40A	N12A – N12C	Q93A – Q93D			
Q11C	N13A – N13C	Q94A – Q94F			
Q11D	N14D				
Q12C	N21B – N21D				

**Abstraction rate (cubic metres per hectare per year)**

0	45	75	150	275	400
<b>Drainage areas</b>					
Q13A – Q13C Q14A – Q14E Q21B Q22A Q22B Q30B – Q30E Q41D Q43B Q44A – Q44C Q50A Q60A – Q60C	N23A N30A – N30C N40B N40C N40E P10C Q11B Q12A Q12B Q21A Q30A Q41A – Q41C Q42A Q42B Q43A Q50B Q50C Q70A – Q70C Q80A – Q80G Q91A Q92C Q92F				
<b>WMA 16: Gouritz</b>					
J21A	J11A – J11K J12C J12E J12J J12K J21B – J21E J22A – J22K J23A – J23J J24A – J24F J32A – J32E J33A – J33F J34D – J34F J35B J35C	H90D J12D J12F – J12H J12L J12M J13A – J13C J35A J40D K10A K10B	H80A H80D H80E H90A H90B J12A J12B J25A – J25E J31A – J31D J35D – J35F J40A J40C J40E K10D – K10F K20A	H80C H80F H90C H90E J34A – J34C J40B K10C K40A – K40C K40E K50A K50B K60A K60B K60G	H80B K60C – K60F K70A K70B

**Abstraction rate (cubic metres per hectare per year)**

0	45	75	150	275	400
<b>Drainage areas</b>					
			K30A – K30D K40D		
<b>WMA 17: Olifants/Doom</b>					
G30B – G30G	E22A – E22G E23A – E23K E24C – E24H E31A – E31H E32A – E32E E33A – E33E E33H E40A E40B G30H F60A – F60E	E21A – E21C E21E E21L E24A E24B E24J – E24M E33F E40C E40D	E10E – E10K E21D E21F – E21K G30A		E10A – E10D
<b>WMA 18: Breede</b>					
H10C		G40K G50G G50H H10A H50B H60G H60K H60L H70A H70B H70F – H70J	G40F G50B – G50E H10F H10L H20A H20H H30A – H30E H40A H40C – H40J H40L H50A H60H H60J H70C H70K	G40H G40J G40L G40M G50A G50F G50J G50K H10B H10D H10G H10H H20B – H20G H40B H40K H60D – H60F H70D H70E	G40B – G40E G40G H10E H10J H10K H60A – H60C
<b>WMA 19: Berg</b>					
			G10D – G10F		G10A – G10C

**Abstraction rate (cubic metres per hectare per year)**

0	45	75	150	275	400
<b>Drainage areas</b>					
			G10H – G10M G21A – G21F		G10G G22A – G22K G40A