



DEPARTEMENT VAN WATERWESE EN BOSBOU
DEPARTMENT OF WATER AFFAIRS AND FORESTRY
LEFAPHA LA METSI LE DIKGWA
UMNYANGO WEZAMANZI NEZAMAHLATHI

RESIDENSIEGEBOU/BUILDING, SCHOEMANSTRAAT 185 SCHOEMAN STREET, PRETORIA

Cabinet



DWI

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J. ROSSOUW

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PRETORIA



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16/2/7/H500/D79/Z1

PERMIT NUMBER: 16/2/7/H500/D79/Z1/P304
CLASS: G:S:B⁻
WASTE DISPOSAL SITE: BONNIEVALE WASTE SITE
LOCATION: ERF 462 - MUNICIPAL COMMONAGE OF BONNIEVALE,
DIVISION OF SWELLENDAM.
PERMIT HOLDER: BONNIEVALE MUNICIPALITY
ADDRESS: P.O. BOX 10, BONNIEVALE, 6730.

PERMIT IN TERMS OF SECTION 20 OF THE ENVIRONMENT CONSERVATION ACT,
1989 (ACT 73 OF 1989)

By virtue of the powers delegated to me by the Minister of Water Affairs and Forestry (hereinafter referred to as "the Minister"), I, Dr. Henk Robert van Vliet, in my capacity as Chief Director: Scientific Services in the Department of Water Affairs and Forestry (hereinafter referred to as "the Department"), hereby, in terms of section 20(1) of the Environment Conservation Act, 1989 (Act 73 of 1989), authorise the abovementioned Permit Holder to further develop and operate the abovementioned waste disposal site, subject to the conditions specified herein.

PERMIT CONDITIONS

In this Permit, "Regional Director" means the Regional Director: Western Cape of the Department who may be contacted at the address below:

Regional Director: Western Cape
Department of Water Affairs and Forestry
Private Bag X16
SANLAMHOF
7532

1. LOCATION

- 1.1 This Permit authorises the further development and operation of a waste disposal site on Erf 462 - Municipal Commonage of Bonnievale, Division of Swellendam (hereinafter referred to as "the Site") according to the report 8/1/2/1 and 6/3/1 by Bonnievale Municipality, dated August 1997 and 27 October 1997 respectively (hereinafter referred to as "the Report"), submitted by the Permit Holder.

The location of the Site shall be according to the coordinates indicated on the permit application form, submitted by the Permit Holder.

2. PERMISSIBLE WASTE

- 2.1 The Site may be used for the disposal of all waste types, excluding those listed in Annexure I and excluding those where specific control has been established in terms of the Nuclear Energy Act, 1993 (Act 131 of 1993). Waste types controlled in terms of the Minerals Act, 1991 (Act 50 of 1991) and the Electricity Act, 1987 (Act 41 of 1987) are also excluded from disposal on the Site unless written permission has been obtained from the Regional Director.
- 2.2 The Permit Holder shall take all reasonable steps to ensure that -
 - 2.2.1 no organic or inorganic element or compound which may have a definite acute or chronic negative effect on human or animal health and/or the environment, due to its toxic, physical, chemical or persistent characteristics and which corresponds with the UNEP definition of hazardous waste be disposed of on the Site;
 - 2.2.2 no medical waste be disposed of on the Site; and
 - 2.2.3 no scheduled pharmaceutical products registered in terms of the Medicines and Related Substances Control Act, 1965 (Act 101 of 1965) or associated containers be disposed of on the Site.

3. CONSTRUCTION

- 3.1 The Site or any portion thereof may only be used for the disposal of permissible waste if the Site or any such portion has been constructed or developed according to condition 3 of this Permit.
- 3.2 Further development within the Site shall be carried out under the supervision of a suitably qualified person proposed by the Permit Holder and approved by the Regional Director.
- 3.3 Should a portion of the Site be further developed, the Permit Holder shall notify the Regional Director of such a development within the Site and the person referred to in condition 3.2 shall submit a certificate or alternatively a letter to the Regional Director that the construction of that development within the Site, as proposed by the Permit Holder and approved by the Regional Director, is in accordance with recognised civil engineering practice before disposal may commence on that portion within the Site. The completed construction works of the development within the Site shall be inspected by an official of the Department and the person referred to in condition 3.2. If the Regional Director is satisfied with the construction of that further development within the Site and has given written permission, the Permit

Holder may use that portion of the Site for the disposal of waste.

- 3.4 The Permit Holder shall take all reasonable steps, such as suitable zoning and/or written agreements with adjacent landowners, to establish and maintain an unbuilt area or "buffer zone" of 800 metres between the Site and the nearest residential and/or light industrial areas during the operative life of the Site. Heavy industries or industries which may create nuisance conditions may be permitted within the buffer zone in terms of the appropriate legislation.
- 3.5 Works shall be constructed and maintained on a continuous basis by the Permit Holder to divert and drain from the Site in a legal manner, all runoff water arising on land adjacent to the Site, which could be expected as a result of the estimated maximum precipitation during a period of 24 hours with an average frequency of once in fifty years (hereinafter referred to as the "estimated maximum precipitation"). Such works shall, under the said rainfall event, maintain a freeboard of half a metre.
- 3.6 Works shall be constructed and maintained on a continuous basis by the Permit Holder to divert and drain from the working face of the Site, all runoff water arising on the Site, which could be expected as a result of the estimated maximum precipitation and to prevent such runoff water from coming into contact with leachate from the Site. Such works shall, under the said rainfall event, maintain a freeboard of half a metre.
- 3.7 Runoff water referred to in condition 3.6 shall comply with the quality requirements of the General Standard, prescribed in terms of section 21(1)(a) of the Water Act, 1956 as published in Government Notice 991 of 18 May 1984, or with such quality requirements as may from time to time be determined by the Minister and shall be drained from the Site in a legal manner.
- 3.8 Runoff water referred to in condition 3.6 which does not comply with the quality requirements applicable in terms of condition 3.7 and all sporadic leachate shall, by means of works which shall be constructed and maintained on a continuous basis by the Permit Holder -
 - 3.8.1 be treated to comply with the aforementioned standard and discharged in a legal manner; and/or,
 - 3.8.2 with the written approval of the Regional Director be evaporated in dams and/or be evaporated by spraying over those portions of the Site which comply with the requirements set in terms of condition 3.1.
- 3.9 The Site shall be constructed in accordance with recognised civil engineering practice to ensure that it remains stable.
- 3.10 The maximum height of the Site above ground level shall not exceed 3 metres.
- 3.11 The slope of the sides of the Site shall be constructed in such a manner that little or no erosion occurs.

3.12 The Permit Holder shall make provision for adequate sanitation facilities on the Site.

4. ACCESS CONTROL

4.1 Weatherproof, durable and legible notices in three official languages applicable in the area, shall be displayed at each entrance to the Site. These notices shall prohibit unauthorised entry and state the hours of operation, the name, address and telephone number of the Permit Holder and the person responsible for the operation of the Site.

4.2 The Site shall be fenced and/or secured to reasonably prevent unauthorised entry.

4.3 The Permit Holder shall take all reasonable steps to maintain service roads in a condition which ensures unimpeded access to the Site for vehicles transporting waste and to keep the roads free of waste.

4.4 The Permit Holder shall ensure that all entrance gates are manned during the hours of operation and locked outside the hours of operation.

4.5 The Permit Holder shall ensure effective access control.

4.6 The Permit Holder shall take all reasonable steps to prevent the disposal of waste on the Site for which the Site has not been approved.

5. OPERATION

5.1 Waste disposal and operation shall be done according to the relevant minimum requirements the Operation Report, dated 27 October 1997, the conditions of this Permit and any other written instruction by the Department.

5.2 Burning of waste is prohibited.

5.3 Waste disposed of on the Site shall be compacted and covered on a daily basis with a minimum of 150 millimetres of soil or other material approved by the Regional Director.

5.4 The Permit Holder shall take all reasonable steps to ensure that the Site is operated in a manner which shall prevent the creation of nuisance conditions or health hazards.

5.5 Waste disposed of on the Site may not be reclaimed.

6. RECORDING

6.1 The Permit Holder shall keep a record of and update all the information referred to in Annexure II on an annual basis.

7. REPORTING

7.1 The information required in terms of condition 6.1 shall be submitted to the Regional Director within a period of one

year from the date of issuing of this Permit and annually thereafter.

8. REHABILITATION AND CLOSURE OF THE SITE

- 8.1 The Permit Holder shall, at least 60 days prior to the intended closure of the Site, notify the Regional Director by registered mail of such closure and submit final rehabilitation plans for his approval.
- 8.2 Immediately following the cessation of operations with the intention to close the Site, the surface of the Site shall be covered in such a way that -
- 8.2.1 the formation of pools due to rain is prevented;
- 8.2.2 free surface runoff of rain-water is ensured; and
- 8.2.3 no objects or materials which may hamper the rehabilitation of the Site are present.
- 8.3 The Permit Holder shall rehabilitate the Site in accordance with a rehabilitation plan which shall be submitted by the Permit Holder and which shall be to the satisfaction of the Regional Director.

9. LEASING AND ALIENATION OF THE SITE

- 9.1 Should the Permit Holder want to alienate or lease the Site, he shall notify the Regional Director in writing of such an intention at least 60 days prior to the said transaction.

10. GENERAL

- 10.1 The Permit Holder shall within a period of 60 days from the date of issuing of this Permit apply for the rezoning of the Site for waste disposal purposes. Should the Permit Holder be unsuccessful in rezoning the Site for waste disposal purposes within a period of 2 years from the date of issuing of this Permit, a written motivation shall be provided to the Regional Director defining the reasons why the application for rezoning failed. The Regional Director shall then take an appropriate decision regarding the future of the Site.
- 10.2 This Permit shall not be transferable.
- 10.3 This Permit shall not be construed as exempting the Permit Holder from compliance with the provisions of the Health Act, 1977 (Act 63 of 1977), the Water Act, 1956 (Act 54 of 1956) or any other applicable act, ordinance, regulation or by-law.

Hannu van Vliet

CHIEF DIRECTOR: SCIENTIFIC SERVICES
p.p. MINISTER OF WATER AFFAIRS AND FORESTRY

DATE: 31.7.98

ANNEXURE IWASTE WHICH SHALL NOT BE ACCEPTED ON THE SITE

1. Waste considered to be dangerous by virtue of their fire hazard. That is all waste with a closed cup flashpoint $<61^{\circ}\text{C}$.
2. Any waste with a substance which is a Group A and/or Group B carcinogen. Group A carcinogens have been clinically and epidemiologically proven in humans. Group B carcinogens have been proven without doubt in laboratory animals.
3. Any waste with a substance at a concentration greater than 1% which is a Group C and/or Group D carcinogen. Group C carcinogens have shown limited evidence in animals. Group D carcinogen - the available data is inadequate and doubtful.
4. Any waste with a substance which is a Mutagen.
5. Any infectious waste, unless it has been incinerated at 800°C or higher for at least 1 second. Infectious waste is waste which is generated during the diagnosis, treatment or immunisation of humans or animals; in the research pertaining to this; in the manufacturing or testing of biological agents -including blood, blood products and contaminated blood products, cultures, pathological wastes, sharps, human and animal anatomical wastes and isolation waste that contain or may contain infectious substances.
6. Any waste with a substance with a LD_{50} for acute oral toxicity smaller and equals to 5000 mg/kg. The LD_{50} for acute oral toxicity shall be as defined in SABS 0228:1995.
7. Any waste with a substance with a LD_{50} for acute dermal toxicity smaller and equals to 2000 mg/kg. The LD_{50} for acute toxicity on dermal toxicity shall be as defined in SABS 0228:1995.
8. Any waste with a substance with a LC_{50} for acute toxicity on inhalation smaller and equals to 10mg/l. The LC_{50} for acute toxicity on inhalation shall be as defined in SABS 0228:1995.
9. Any waste with a substance with a LC_{50} (96hr) for acute ecotoxicity smaller and equals to 1000 mg/l.
10. All waste with a pH less than 6 or greater than 12.
11. All material which falls in Class 1 (explosives), Class 2 (compressed gases) and Class 7 (radioactive materials), as specified in SABS 0228:1995.
12. Any waste which is difficult to analyse and classify.
13. Any complexes of heavy metal cations, paints and paint sludges, laboratory chemicals.

4.(a) Indicate the method of disposal of waste (*). Landbuilding Landfilling

(b) Indicate the present dimensions of the site in metres.

Height/depth
 Length
 Breadth

5. Indicate the applicable waste types and quantities salvaged during the year (*)

No salvaging undertaken

Type	Quantity (m ³)	Type	Quantity (m ³)
<input type="checkbox"/> Paper/wood fibre	<input type="checkbox"/> Rubber	.....
<input type="checkbox"/> Plastics	<input type="checkbox"/> Textiles	.....
<input type="checkbox"/> Glass	<input type="checkbox"/> Iron	.....
<input type="checkbox"/> Copper	<input type="checkbox"/> Aluminium	.....
<input type="checkbox"/> Zinc	<input type="checkbox"/> Lead	.....
<input type="checkbox"/> Phosphorgypsum	<input type="checkbox"/> Fly-ash	.....
<input type="checkbox"/> Waste for composting	<input type="checkbox"/> Food residues	.....
<input type="checkbox"/> Flammable gases	Other	.....
Other	Other	.....
Other	Other	.....

6. Indicate the types, sources and approximate quantities of available covering material (*).

Type	Sources	Quantity m ³
<input type="checkbox"/> Soil
<input type="checkbox"/> Sand
<input type="checkbox"/> Ash
<input type="checkbox"/> Gravel
<input type="checkbox"/> Clay
<input type="checkbox"/> Building rubble
Other (specify)
.....
.....
.....

* Indicate with an X

Signature
 Capacity.....
 Place..... Date.....



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PRETORIA
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B. CONRADIE



(054) 25605



16/2/7/D700/D1/Z1

1998-04-28

PERMITNOMMER: 16/2/7/D700/D1/Z1/P301
KLAS: G:S:B
AFVALSTORTTERREIN: SWARTMODDERWEG UPINGTON
LIGGING: UPINGTON DORPSMEENT(ERF 1), GRONDBRIEF
7/44
PERMITHOUER: UPINGTON-MUNISIPALITEIT
ADRES: PRIVAATSAK X6003, UPINGTON, 8800

PERMIT KRAGTENS ARTIKEL 20 VAN DIE WET OP OMGEWINGSBEWARING, 1989 (WET 73 VAN 1989)

Kragtens die bevoegdheid aan my gedelegeer deur die Minister van Waterwese en Bosbou (hierin na verwys as "die Minister"), verleen ek, Jacobus Louis Johannes van der Westhuizen, in my hoedanigheid van waarnemende Hoofdirekteur: Wetenskaplike Dienste van die Departement van Waterwese en Bosbou (hierna genoem "die Departement"), hiermee, kragtens artikel 20 (1) van die Wet op Omgewingsbewing, 1989 (Wet 73 van 1989), toestemming aan Upington-Munisipaliteit vir die sluiting en rehabilitasie van die Swartmodderweg-afvalstortterrein (Upington) onderworpe aan die voorwaardes wat in hierdie Permit uiteengesit is.

PERMITVOORWAARDES

In hierdie Permit beteken "Streekdirekteur" die Streekdirekteur: Noord-Kaap van die Departement by die volgende adres:

Streekdirekteur: Noord-Kaap
Departement van Waterwese en Bosbou
Privaat Sak X6101
KIMBERLEY
8300

1. LIGGING

1.1 Hierdie Permit magtig die sluiting en rehabilitasie van 'n afvalstortterrein te Swartmodderweg, Upington Dorpsmeent, Erf 1, Grondbrief 7/44 (hierna genoem "die Terrein").

1.2 Die ligging van die Terrein sal wees soos aangedui deur die koördinate op die permitaansoekvorm, deur die Permithouer voorgelê.

2. KONSTRUKSIE

- 2.1 Die sluiting en rehabilitasie van die Terrein moet plaasvind in ooreenstemming met die rehabilitasieplan, gedateer 3 Junie 1996, ingedien deur die Permithouer en onder die toesig van 'n voldoende gekwalifiseerde persoon soos deur die Permithouer voorgestel en deur die Streekdirekteur goedgekeur.
- 2.2 Werke moet deur die Permithouer opgerig en gereeld in stand gehou word om alle afloopwater wat aanliggend tot die Terrein kan ontstaan en wat verwag kan word as gevolg van die beraamde maksimum reënval wat gedurende 'n tydperk van 24 uur mag voorkom met 'n gemiddelde frekwensie van een in vyftig jaar (hierna genoem die "beraamde maksimum reënval"), van die Terrein weg te keer en op 'n wettige manier af te voer. Onder die genoemde maksimum reënval moet die werke 'n minimum vryboord van 'n halwe meter handhaaf.
- 2.3 Die Terrein moet ooreenkomstig erkende siviele ingenieurspraktyk gerehabiliteer word om die stabiliteit daarvan te verseker.
- 2.4 Die helling van die Terrein moet so ontwikkel word dat weinig of geen erosie plaasvind nie.

3. TOEGANGSBEHEER

- 3.1 Die Permithouer moet alle redelike stappe doen om te verseker dat geen verdere afval op die Terrein gestort word nie.
- 3.2 Die Terrein moet doeltreffend omhein en/of beveilig word ten einde ongemagtigde toegang redelikerwys te voorkom.

4. FINALE REHABILITASIE EN SLUITING VAN DIE TERREIN

- 4.1 Die Permithouer moet die Terrein tot die tevredenheid van die Streekdirekteur rehabiliteer.
- 4.2 Onmiddellik nadat werksaamhede op die Terrein gestaak is met die doel om die Terrein te sluit, moet die oppervlak van die Terrein bedek word sodat -
- 4.2.1 geen poelvorming as gevolg van reën kan plaasvind nie;
- 4.2.2 die vrye oppervlakafloop van reënwater verseker word; en
- 4.2.3 geen voorwerpe of materiale op die Terrein voorkom wat die rehabilitasie daarvan kan belemmer nie.

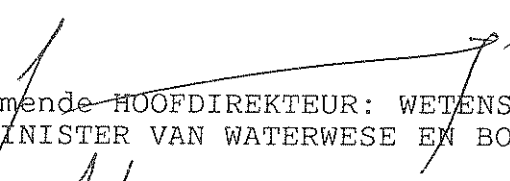
5. VERHURING EN VERVREEMDING VAN DIE TERREIN

5.1 Indien die Permithouer die Terrein aan 'n ander persoon wil verhuur of vervreem, moet die Streekdirekteur ten minste 60 dae voor sodanige transaksie daarvan in kennis gestel word.

6. ALGEMEEN

6.1 Hierdie Permit is nie oordraagbaar nie.

6.2 Hierdie Permit moet nie op so 'n wyse vertolk word dat dit vrystelling verleen van voldoening aan die bepalings van die Wet op Gesondheid, 1977 (Wet 63 van 1977), die Waterwet, 1956 (Wet 54 van 1956) of enige ander toepaslike wet, ordonnansie, regulasie of verordening nie.


Waarnemende HOOFDIREKTEUR: WETENSKAPLIKE DIENSTE
p.p. MINISTER VAN WATERWESE EN BOSBOU

DATUM: 28/4/78