

Appendix F.2

Registered Letters BID

PROPOSED WASTE DISPOSAL SITE, LEKKERSING

Address List Registered Post: Copies of BID

The Director
Environmental Quality Management
(Waste Pollution)
Department of Environment & Nature Conservation
Private Bag X 6102
KIMBERLEY
8300

REGISTERED LETTER
(with a domestic insurance option)
RD 641 746 703 ZA
A BOOK COPY

The Director
Environmental Quality Management
Department of Environment & Nature Conservation
Private Bag X 6102
KIMBERLEY
8300

REGISTERED LETTER
(with a domestic insurance option)
RD 641 746 694 ZA
A BOOK COPY

Ms. L. Karsten
Environmental Quality Management
Department of Environment & Nature Conservation
Private Bag X16
SPRINGBOK
8240

REGISTERED LETTER
(with a domestic insurance option)
RD 641 746 685 ZA
A BOOK COPY

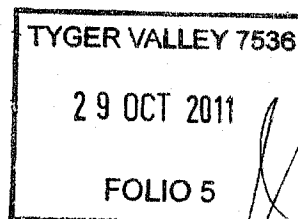
Mr. B. Cornelissen
Environmental Quality Management
(Waste Pollution)
Department Environment & Nature Conservation
Private Bag X 16
SPRINGBOK
8240

REGISTERED LETTER
(with a domestic insurance option)
RD 641 746 677 ZA
A BOOK COPY

Municipal Manager
Namakwa District Municipality
Private Bag X 20
SPRINGBOK
8240

REGISTERED LETTER
(with a domestic insurance option)
RD 641 746 782 ZA
A BOOK COPY

Municipal Manager
Richtersveld Municipality
Private Bag X 113
PORT NOLLOTH
8280



REGISTERED LETTER
(with a domestic insurance option)
RD 641 746 779 ZA
A BOOK COPY

Mr. E. Kubayi
Department of Water Affairs
Private Bag X 5912
UPINGTON
8800

REGISTERED LETTER
(with a domestic insurance option)
RD 641 746 765 ZA
A BOOK COPY

D: E&NC (Waste Management Licence) Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC (Environmental Authorisation) Ref. No: NC/BA/NAM/RIC/LEK1/2011

28 October 2011

The Director
Environmental Quality Management
(Waste Pollution)
Department of Environment and Nature Conservation
Private Bag X 6102
KIMBERLEY
8300

Dear Sir/ Ms,

APPLICATION: PROPOSED WASTE DISPOSAL SITE, LEKKERSING

Your letter NC/NAM/RICHT/LEK/02/2011 dated 28 September 2011 refers.

Attached please find a copy of the Background Information Document for your information.

The closing date for registration as I&AP and initial comment is Monday 28 November 2011.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

D: E&NC (Waste Management Licence) Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC (Environmental Authorisation) Ref. No: NC/BA/NAM/RIC/LEK1/2011

28 October 2011

Ms. L. Karsten
Environmental Quality Management
Department of Environment & Nature Conservation
Private Bag X16
SPRINGBOK
8240

Dear Ms. Karsten,

APPLICATION: PROPOSED WASTE DISPOSAL SITE, LEKKERSING

Your letter NC/BA/NAM/RIC/LEK1/2011 dated 8 September 2011 refers.

Attached please find a copy of the Background Information Document for your information.

The closing date for registration as I&AP and initial comment is Monday 28 November 2011.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

ENVIRO LOGIC

Environmental Impact Assessment, Planning and Management Services
Omgevingsimpakbeoordeling, Beplanning- en Bestuursdienste

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

28 October 2011

Municipal Manager
Namakwa District Municipality
Private Bag X 20
SPRINGBOK
8240

Dear Sir/ Ms.,

PROPOSED WASTE DISPOSAL SITE, LEKKERSING

Attached please find a copy of the Background Information Document for your information.

The closing date for registration as I&AP and initial comment is Monday 28 November 2011.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

PO BOX 111
TROMPSBURG
TROMPSBURG 111
TROMPSBURG 111
TROMPSBURG 111
TROMPSBURG 111

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011

D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

28 October 2011

Mr. E. Kubayi
Department of Water Affairs
Private Bag X 5912
UPINGTON
8800

Dear Mr. Kubayi,

PROPOSED WASTE DISPOSAL SITE, LEKKERSING

Attached please find a copy of the Background Information Document for your information.

The closing date for registration as I&AP and initial comment is Monday 28 November 2011.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011

D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

28 October 2011

Mr. J. Sinthumula
Heritage Northern Cape
Department of Sports, Arts and Culture
Private Bag X 5004
KIMBERLEY
8300

Dear Mr. Sinthumula,

PROPOSED WASTE DISPOSAL SITE, LEKKERSING

Attached please find a copy of the Background Information Document for your information.

The closing date for registration as I&AP and initial comment is Monday 28 November 2011.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

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EH

**PROPOSED WASTE DISPOSAL SITES, EKSTEENSFONTEIN, KUBOES,
LEKKERSING, SANDDRIFT & PORT NOLLOTH**

Address List Registered Post: Copies of BID

**Cllr. W. Links
93 Springbok Street
KUBOES
8292
(EKSTEENSFONTEIN)**

**REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 641 746 986 ZA
CUSTOMER COPY 301028R**

**Cllr. W. Links
93 Springbok Street
KUBOES
8292
(KUBOES)**

**REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 641 746 972 ZA
CUSTOMER COPY 301028R**

**Cllr. W. Links
93 Springbok Street
KUBOES
8292
(LEKKERSING)**

**REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 641 747 006 ZA
CUSTOMER COPY 301028R**

**Cllr. A. Jansen
Richtersveld Municipality
Private Bag X 113
PORT NOLLOTH
8280
(SANDDRIFT)**

**REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 626 747 556 ZA
CUSTOMER COPY 301028R**

**Cllr. G. Beukes
343 Gravenor Street
PORT NOLLOTH
8280
(PORT NOLLOTH)**

**REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 626 747 560 ZA
CUSTOMER COPY 301028R**

**Mr. F. C. Rust
Chairman
Richtersveld Ratepayers Association
P. O. Box 443
PORT NOLLOTH
8280
(PORT NOLLOTH)**

**REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 626 747 573 ZA
CUSTOMER COPY 301028R**

**TYGER VALLEY 7536
01 NOV 2011
FOLIO 5**

Appendix F.3

Advertisements

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in other instances, it is purely a management system in terms of administrating these vehicles,” stated the Minister.

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“We have been emphasising to SAPS management the aspect of equitable distribution of resources, including vehicles, but more importantly to ensure that these are used to serve communities. To this end we also want to emphasise that those who abuse such resources, that stricter and harsher measures are taken against them.

We cannot provide communities with excuses

when it comes to fighting crime, it is our conviction, our duty to serve and we have to do it smarter and faster,” concluded Minister Mthethwa.

Below is a table of police vehicles per province with their actual number of active vehicles as on August this year. In his reply, he stated that the numbers exclude specialised units placed at station level.

The South African Police Service in a process to compile issuing criteria which will determine per function the number of vehicles per members (optimal). The department is also in a process to develop allocation criteria which will address the type of vehicle to be allocated to specific geographical areas.”

ENVIRONMENTAL IMPACT ASSESSMENT

PUBLIC PARTICIPATION PROCESS: SCOPING & ENVIRONMENTAL IMPACT REPORT
Department of Environment and Nature Conservation Ref. No: NC/NAM/RICHT/LEK/02/2011
Department of Environment and Nature Conservation Ref. No: NC/BA/NAM/RIC/LEK1/2011

PROPOSED WASTE DISPOSAL SITE, LEKKERSING, NORTHERN CAPE

Application for a Waste Management Licence in terms of the National Environmental Management: Waste Act, 2008 (No. 59 of 2008)
Application for Environmental Authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) as amended, and the Environmental Impact Assessment Regulations, 2010.

Notice is hereby given of a public participation process as defined in the environmental impact assessment (EIA) regulations made under section 24(5) of the National Environment Management Act 2008 (NEMA) (Act No. 107 of 1998).

Project Proposal: A waste disposal site of ± 2.8 ha will be fenced off. Trenches will be excavated in which the general waste of ± 5.2m³ per day will be disposed in and covered with a layer of soil. After a trench has reached its capacity it will be closed off by covering it with a final layer of soil and a new trench will be opened up. A gravel access road of a width of 6 meters and ± 0.85 km long will be constructed.

Location: Portion 5 of Farm Richtersveld 11, Namaqualand. The village of Lekkersing is situated in the Northern Cape and falls within the Richtersveld Municipal area.

Alternative 1 (Preferred Alternative): The proposed waste disposal site will be more than 3.5km southwest of the village.
Alternative 2: An alternative site for the waste disposal facility has been identified about 800m west of Lekkersing.

Applicant: Richtersveld Municipality (Port Nolloth)

Application for Environmental Authorisation in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), to undertake the following activities:

Listed activities in terms of Government Notice No. R.544 (Listing Notice 1 dated 18 June 2010):

<p>Activity No. 11 The construction of:</p> <p>(xi) Infrastructure or structures covering 50 square metres or more Where such construction occurs within a water-course or within 32 metres of a watercourse, measured from the edge of the water-course, excluding where such construction will occur behind the development setback line.</p>	<p>Activity No. 18 The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock from: (i) a watercourse</p>
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Listed activities in terms of Government Notice No. R.546 (Listing Notice 3 dated 18 June 2010):

<p>Activity No. 4 The construction of a road wider than 4 metres with a reserve less than 13.5 metres. (a) In Eastern Cape, Free State, Kwazulu-Natal, Limpopo, Mpumalanga and Northern Cape Province: (ii) Outside Urban Areas, in: (gg) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core areas of a biosphere reserve;</p>	<p>Activity No. 16 The construction of: (iv) infrastructure covering 10 square metres or more Where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse excluding where such construction occur behind the development setback line. (a) Northern Cape: (ii) Outside urban areas, in: (hh) Areas within 10 kilometres from national parks or world heritage sites or 5 kilometres from any other protected area identified in terms of NEMPAA or from the core area of a biosphere reserve.</p>
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Application for a Waste Management Licence in terms of the National Environmental Management: Waste Act, 2008 (No. 59 of 2008), to undertake the following activities:

Listed activities in terms of Government Notice No. 32368 dated 3 July 2009

<p>Category A Activity 3 (1) The storage, including the temporary storage, of general waste at a facility that has the capacity to store in excess of 100m³ of general waste at any one time, excluding the storage of waste in lagoons.</p>	<p>Activity 3 (18) The construction of facilities for activities listed in Category A of this Schedule (not in isolation to associated activity).</p>
<p>Category B Activity 4 (10) The disposal of general waste to land covering an area in excess of 200m².</p>	<p>Activity 4 (11) The construction of facilities for activities listed in Category B of this Schedule (not in isolation to associated activity).</p>

A Background Information Document (BID) for public inspection is available at the local municipal office. Lekkersing. A copy is also available upon request from the under mentioned consultant.

To be registered as an interested and affected party (I&AP) please refer to the reference numbers above and send your name and contact details (preferred method of notification, e.g. E-mail address or fax number) and an indication of any direct business, financial, personal, or other interest which you have in the application to the under mentioned consultant. The closing date for registration and initial comment is Monday 28 November 2011. Further information regarding the application can be obtained from the under mentioned consultant.

Consultant: ENVIRO LOGIC, P.O. Box 3731, Tyger Valley, 7536.
Fax: (021) 919 4048. E-mail: gpec12@telkomsa.net
Contact person: Gert Pretorius Cell: 082 458 9844
Date of notice: 28 October 2011

Appendix F.4

Background Information Document (BID)

**ENVIRONMENTAL IMPACT ASSESSMENT
PUBLIC PARTICIPATION PROCESS: SCOPING & EIR
BACKGROUND INFORMATION DOCUMENT**

PROPOSED WASTE DISPOSAL SITE LEKKERSING

Department of Environment and Nature Conservation Reference No: NC/NAM/RICHT/LEK/02/2011
Department of Environment and Nature Conservation Reference No: NC/BA/NAM/RIC/LEK1/2011

October 2011



OMGEWINGSIMPAKBEOORDELING

**OPENBARE DEELNAMEPROSES: OMVANGBEPALING EN
OMGEWINGSINVLOEDBEPALING PROSES**

AGTERGRONDINLIGTINGSDOKUMENT

VOORGESTELDE AFVAL STORTINGS TERREIN, LEKKERSING

Departement Omgewing en Natuurbewaring Verwysings Nr: NC/NAM/RICHT/LEK/02/2011
Departement Omgewing en Natuurbewaring Verwysings Nr: NC/BA/NAM/RIC/LEK1/2011

Oktober 2011

Background Information Document

Notice is hereby given of a public participation process in terms of the Environmental Impact Assessment ("EIA") Regulations 2010 promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA").

1. Introduction

Delivering proper services in urban areas is one of the key objectives identified in the 2009 Richtersveld Integrated Development Plan. Sound infrastructure forms the backbone for proper long term provision of basic services. In addition the establishment of a proper waste management regime and creating formalised Waste sites is important from both a human health and environmental perspective. The current informal waste dumping site at Lekkersing does not meet the necessary legislative requirements and is operating without a Waste Management Licence.

The proposed development will encompass the ± 2.8ha area identified for the waste disposal site. This site will be fenced off and trenches will be excavated in which the general waste will be disposed in. After a trench has reached its capacity it will be closed off by covering it with soil and a new trench will be opened up. A gravel access road will be constructed.

ENVIRO LOGIC has been appointed by the Richtersveld Municipality as independent environmental assessment practitioners (EAP) to carry out the Environmental Impact Assessment process for the proposed Waste Disposal Site in terms of the *National Environmental Management Act (NEMA) 1998, (Act No. 107 of 1998)* as amended and the *National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008)*. This is required as the proposed project triggers several of the listed activities identified in the *Environmental Impact Assessment Regulations 2010* as well as the *National Environmental Management: Waste Act, 2008 (No. 59 of 2008)* "List of Waste Management Activities that have, or are likely to have a Detrimental Effect on the Environment." The process will investigate if there are any potential significant detrimental impacts to the receiving environment from the proposal. It will also provide an opportunity for the public and key role players to give input and participate in the process, as well as for specialist input on specific aspects.

An Application for Environmental Authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) as amended, and the Environmental Impact Assessment Regulations, 2010 was submitted to the Department of Environment and Nature Conservation (Northern Cape). Reference No.: NC/BA/NAM/RIC/LEK1/2011

An application for a Waste Management Licence in terms of the National Environmental Management: Waste Act, 2008 (No. 59 of 2008) was submitted to the Department of Environment and Nature Conservation (Northern Cape). Reference No.: NC/NAM/RICHT/LEK/02/2011

2. Applicant & Consultants

The Applicant for the proposed development is the **Richtersveld Municipality, Port Nolloth.**

The Consulting Engineers are **BVi Consulting Engineers (Springbok).**

The Environmental Assessment Practitioner ("EAP") is **ENVIRO LOGIC.**

An Archaeological Impact Assessment will be conducted by the **Agency for Cultural Resource Management (ACRM).**

A Geohydrological assessment will be carried out by **SRK Consulting.**

3. Legal Processes

Before any development can occur, the applicant has to satisfy the requirements of several sets of legislation. The requirements of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008), the National Water Act (No. 36 of 1998) and the National Heritage Resources Act, 1999 (Act No. 25 of 1999) will be satisfied simultaneously with this current EIA process.

Application for a Waste Management Licence in terms of the National Environmental Management: Waste Act ("NEM: WA"), 2008 (Act No. 59 of 2008), to undertake the following activities:

Listed activities in terms of Government Notice No. 32368 dated 3 July 2009

Category A

Activity 3 (1) The storage, including the temporary storage, of general waste at a facility that has the capacity to store in excess of 100m³ of general waste at any one time, excluding the storage of waste in lagoons.

Activity 3 (18) The construction of facilities for activities listed in Category A of this Schedule (not in isolation to associated activity).

Category B

Activity 4 (10) The disposal of general waste to land covering an area in excess of 200m².

Activity 4 (11) The construction of facilities for activities listed in Category B of this Schedule (not in isolation to associated activity).

5. Project Proposal:

The project entails the following:

A waste disposal site of ± 2.8 ha will be fenced off. Trenches will be excavated in which the general waste of ± 5.2m³ per day will be disposed in and covered with a layer of soil. After a trench has reached its capacity it will be closed off by covering it with a final layer of soil and a new trench will be opened up.

Waste will either be collected by a waste disposal vehicle or the public may deposit their general waste at specified times and at an allocated area. Hazardous waste will have to be separated and stored in an allocated area and annually be moved to a solid waste disposal site that has a license for the disposal of hazardous waste.

A gravel access road of with a width of 6 meters and ±0.95 km long will be constructed.

6. Environmental considerations

Various environmental considerations will be taken into account through the Scoping Process. An Archaeologist and Geohydrologist will be appointed to assess potential impacts within their specialty field.

7. Project Location

The village of Lekkersing is situated in the Northern Cape and falls within the Richtersveld Municipal area.

8. Alternatives

8.1 Alternative 1 (Preferred Alternative)

The proposed Waste Disposal Site will be more than 3.5km southwest of the village.

Coordinates: 29° 1' 54.84" S / 17° 4' 31.18" E

(See **Locality Plan Alternative1: Appendix A**)

8.2 Alternative 2

An alternative site for the Waste Disposal Facility has been identified about 800m west of the Alternative 1 site.

Coordinates: 29° 0' 10.76" S / 17° 5' 1.21" E/O

Agtergrondinligtingsdokument

Kennis word hiermee gegee van 'n openbare deelname proses ingevolge die Omgewingsinvloedbepalingsregulasies 2010 uitgevaardig in terme van artikel 24 (5) van die Wet op Nasionale Omgewingsbestuur, 2008 (Wet Nr. 107 van 1998).

1. Inleiding

Die lewering van voldoende dienste in dorpe is een van die belangrikste doelwitte wat geïdentifiseer is in die 2009 Richtersveld Geïntegreerde Ontwikkelingsplan. Geskikte infrastruktuur vorm die ruggraat vir behoorlike langtermyn verskaffing van basiese dienste. Daarbenewens is die vestiging van 'n behoorlike afvalbestuur regime en die skep van geformaliseerde afval stortings tereine 'n belangrik kwesie vanuit 'n menslike gesondheid en omgewings oogpunt. Die huidige informele afval stortingsterrein by Lekkersing voldoen nie aan die wetlike vereistes nie en beskik nie oor 'n Afvalbestuurslisensie nie.

Die voorgestelde stortingsterrein beslaan 'n gebied van ± 2.8ha. Die terein sal omhein word en slote sal gegrawe word waarin die algemene afval in weggedoen sal word. Nadat 'n sloot sy kapasiteit bereik het sal dit gesluit word deur dit te bedek met grond en 'n nuwe sloot sal oopgemaak word. 'n Gruis toegangspad sal gebou word.

ENVIRO LOGIC is deur die Richterveld Munisipaliteit aangestel as die onafhanklike omgewings assesserings praktisyns om die Omgewingsimpakbepalingsproses te onderneem vir die voorgestelde projek in terme van die Wet op Nasionale Omgewingsbestuur ("NEMA") 1998, (Wet Nr. 107 van 1998) soos gewysig, asook die Wet op Nasionale Omgewingsbestuur: Wet op Afval, 2008 (Wet Nr. 59 van 2008). Dit word vereis omdat die voorgestelde projek verskeie gelyste aktiwiteite aktiveer wat geïdentifiseer is in die Omgewingsinvloedbepalings Regulasies van 2010 asook in die Wet op Nasionale Omgewingsbestuur: Wet op Afval, 2008 (Wet Nr. 59 van 2008) "Lys van Afvalbeheer Aktiwiteite wat, of wat waarskynlik 'n nadelige uitwerking op die omgewing kan hê." Die proses sal bepaal of die voorgestelde projek enige betekenisvolle nadelige impak op die omliggende omgewing mag hê. Dit sal ook 'n geleentheid vir die publiek en sleutel rolspelers bied om insette te lewer en deel te neem aan die proses, sowel as vir spesialis insette oor spesifieke aspekte.

'n Aansoek om Omgewingsmagtiging in terme van die Wet op Nasionale Omgewingsbestuur ("NEMA") 1998, (Wet Nr. 107 van 1998) soos gewysig, asook die Omgewingsinvloedbepalings Regulasies van 2010 is by die Departement van Omgewing en Natuurbewaring (Noord-Kaap) ingedien. Verwysingsnommer: NC/BA/NAM/RIC/LEK1/2011.

'n Aansoek vir 'n Afvalbestuurslisensie in terme van die Wet op Nasionale Omgewingsbestuur: Wet op Afval, 2008 (Wet Nr. 59 van 2008) is by die Departement van Omgewing en Natuurbewaring, (Noord-Kaap) ingedien. Verwysingsnommer: NC/NAM/RICHT/LEK/02/2011.

2. Aansoeker & Konsultante

Die Aansoeker vir die voorgestelde ontwikkeling is die **Richtersveld Munisipaliteit, Port Nolloth.**

Die Raadgewende Ingenieurs is **BVi Raadgewende Ingenieurs (Springbok).**

Die Omgewingsbeoordelingspraktisyn ("OBP") is **Enviro Logic.**

'n Argeologiese ondersoek sal deur die **"Agency for Cultural Resource Management (ACRM)"** gedoen word.

'n Geohidrologiese ondersoek sal deur **SRK Raadgewend** gedoen word.

3. Wetlike Prosesse

Voordat enige ontwikkeling in aanvang kan neem, moet daar deur die Aansoeker aan verskeie wetlike vereistes voldoen word. Die vereistes van die Wet op Nasionale Omgewingsbestuur ("NEMA") 1998, (Wet Nr. 107 van 1998) soos gewysig; die Wet op Nasionale Omgewingsbestuur, Wet op Afval 2008 (Wet Nr. 59 van 2008); die Nasionale Waterwet, 1998 (Wet Nr. 36 van 1998)

Aansoek vir 'n Afvalbestuurslisensie in terme van die Wet op Nasionale Omgewingsbestuur, Wet op Afval 2008 (Wet Nr. 59 van 2008), om die volgende aktiwiteite te onderneem:

Gelyste aktiwiteite in terme van Goewermentskennisgewing Nr. 32368 gedateer 3 Julie 2009

Kategorie A

Aktiwiteit 3 (1) Die stoor, insluitende die tydelike berging van algemene afval by 'n fasiliteit wat die vermoë het om meer van 100m³ van algemene afval op enige gegewe tyd, met die uitsondering van die stoor van afval in riool damme, te stoor.

Aktiwiteit 3 (18) Die konstruksie van fasiliteite vir aktiwiteite wat in Kategorie A van hierdie Bylae (nie in isolasie tot verwante aktiwiteit) gelys is.

Kategorie B

Aktiwiteit 4 (10) Die wegdoening van algemene afval tot grond met 'n oppervlakte van meer as van 200m².

Aktiwiteit 4 (11) Die konstruksie van fasiliteite vir aktiwiteite wat in Kategorie B van hierdie Bylae (nie in isolasie tot verwante aktiwiteit) gelys is.

5. Projek Voorstel:

'n Stortingsterrein van ± 2.8ha sal omhein word. Slote sal gegrawe word waarin algemene afval van ± 5.2m³ per dag in weggedoen sal word en met 'n laag grond bedek sal word. Nadat 'n sloot sy kapasiteit bereik het sal dit afgesluit word deur dit te bedek met 'n finale laag grond en 'n nuwe sloot sal gegrawe word.

Afval sal ingesamel word deur 'n afval voertuig of die publiek mag hul algemene afval op vasgestelde tye en op 'n toegekende gebied gaan deponeer. Gevaarlike afval sal geskei en gestoor moet word in 'n toegekende area en jaarliks vervoer word na 'n vaste afval stortingsterrein wat oor 'n lisensie vir die wegdoening van gevaarlike afval beskik.

'n Grond toegangspad met 'n wydte van 6 meter en ± 0,95 km lank sal gebou word. (Sien **Terrein Uitlegplan: Bylae B**).

6.Omgewing oorwegings

Verskeie omgewings oorwegings sal in ag geneem word tydens die Omvangbepalingsproses. 'n Argeoloog en Geohidroloog sal aangestel word om die potensiele impakte in hulle spesialiteitsveld te asseseer.

7. Projek Ligging

Die dorp van Eksteensfontein is in die Noord-Kaap geleë en val binne die Richtersveld Munisipale gebied.

8. Alternatiewe

8.1 Alternatief 1 (Voorkeur Alternatief)

Die voorgestelde afval stortings terein sal meer as 500 m noordoos van die dorp geleë wees.

Koördinate: 29° 1' 54.84" S / 17° 4' 31.18" O

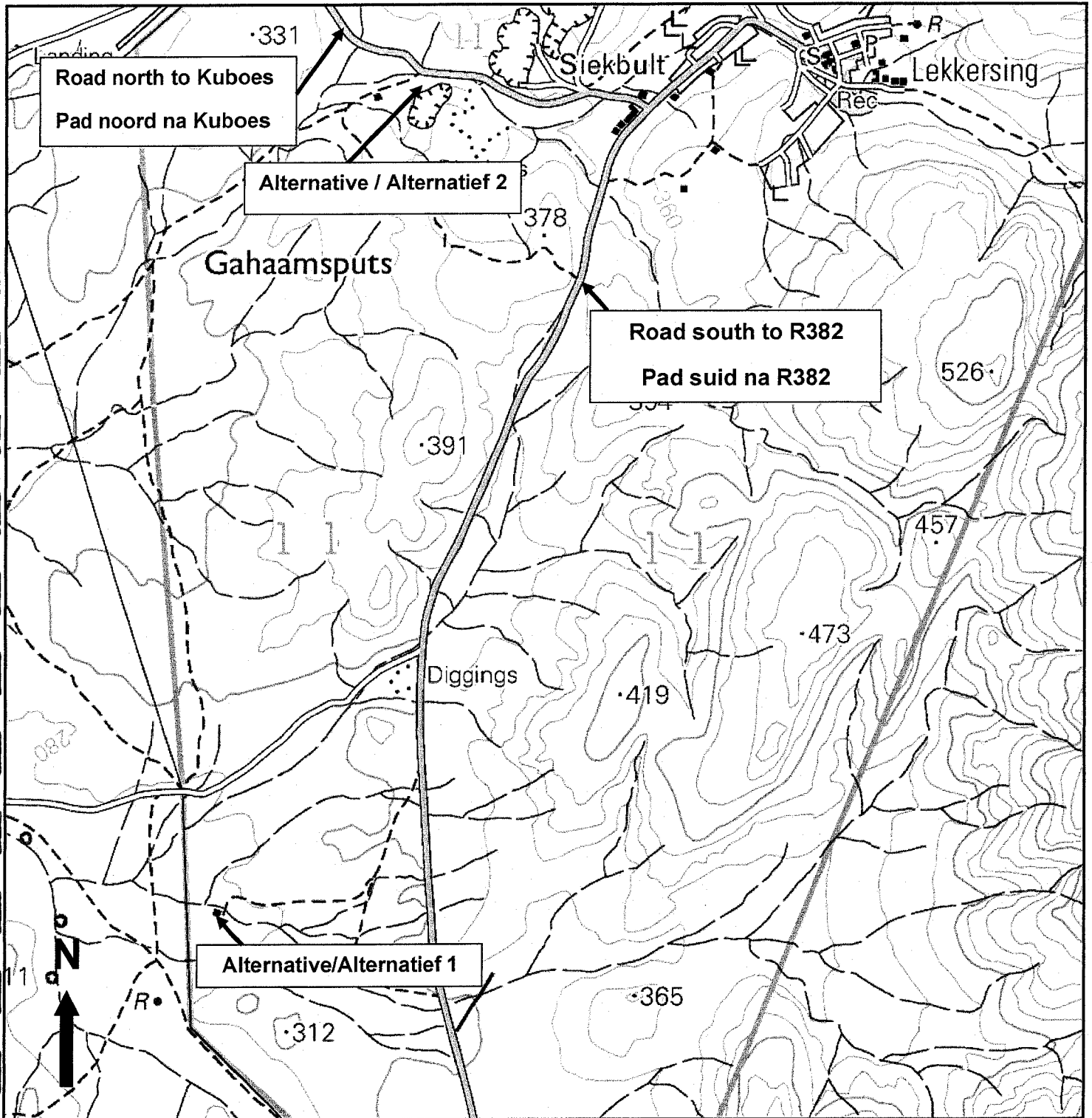
(Sien **Liggingsplan Alternatief 1: Bylae A**).

8.2 Alternatief 2

'n Alternatiewe terrein vir die oprigting van 'n afval stortingsterein is ongeveer 800 m wes van die Alternatief 1 terrein geïdentifiseer.

Koördinate: 29° 0' 10.76" S / 17° 5' 1.21" O

Lekkersing: Proposed waste site / Voorgestelde afval terrein



Locality Plan / Liggingsplan
Scale 1:50 000
Alternative/Alternatief 1: 29° 1' 54.84" S / 17° 4' 31.18" E/O
Alternative/Alternatief 2: 29° 0' 10.76" S / 17° 5' 1.21" E/O

COMMENT SHEET (BID)

PROPOSED WASTE DISPOSAL SITE, LEKKERSING, NORTHERN CAPE

Department of Environment and Nature Conservation Ref. No: NC/NAM/RICHT/LEK/02/2011

Department of Environment and Nature Conservation Ref. No: NC/BA/NAM/RIC/LEK1/2011

Please complete the following details and Fax to (021) 919 4048 or mail to **ENVIRO LOGIC** (Lekkersing), P.O.Box 3731, Tyger Valley, 7536 or E-mail: gpec12@telkomsa.net, to reach us before or on **Monday 28 November 2011**.

Name:.....

Organisation:.....

Address:.....

.....Postcode:.....

Phone number:

Cellphone number:

Fax number:.....

E-mail:

Date:

Should your details change during this process it is your responsibility to send us updated information.

How would you prefer to receive future project information?

Please tick the appropriate box: Post Fax E-mail

Do you have any direct interest in the approval or refusal of the proposed project by the environmental authorities? Please tick the appropriate box/es below.

BUSINESS/ FINANCIAL

Competing business Yes No

Neighbouring business Yes No

Potential employment opportunities Yes No

Service provision Yes No

PERSONAL

Neighbour to proposed project site Yes No

OTHER (please explain) Yes No

Signature:.....Date:

KOMMENTAARBLAD (AID)

VOORGESTELDE AFVAL STORTINGSTERREIN, LEKKERSING, NOORD-KAAP

Departement Omgewing en Natuurbewaring Verw. Nr: NC/NAM/RICHT/LEK/02/2011
Departement Omgewing en Natuurbewaring Verw. Nr: NC/BA/NAM/RIC/LEK1/2011

Voltooi asseblief en faks aan 021- 919 4048 óf pos dit aan **ENVIRO LOGIC** (Lekkersing), Posbus 3731, Tygervallei, 7536 óf E-pos: gpec12@telkomsa.net, om ons te bereik voor of op **Maandag 28 November 2011.**

Naam:.....

Organisasie:.....

Posadres:.....

.....Poskode:

Telefoonnommer:

Selfoonnommer:

Faksnommer:

E-pos:

Sou u kontak besonderhede gedurende die Omgewingsimpakproses verander, is dit u verantwoordelikheid om die opgedateerde inligting aan ENVIRO LOGIC te voorsien.

Hoe sal u verkies om inligting oor die projek in die toekoms te ontvang?

Merk asseblief die toepaslike blok: Pos Faks E-pos

Het u enige direkte belange in die goedkeuring of afkeuring van die voorgestelde projek deur die betrokke omgewingsowerhede? Merk asseblief die toepaslike blok hieronder.

BESIGHEID/ FINANSIEËL

Kompeterende Besigheid Ja Nee

Aangrensende besigheid Ja Nee

Potentiële werkseleenthede Ja Nee

Dienste voorsiening Ja Nee

PERSOONLIK

Aangrensend tot projek terrein Ja Nee

ANDER (verduidelik asseblief) Ja Nee

HANDTEKENING:..... **DATUM:**.....

Appendix F.5

Cover Letters BID and Acknowledgement

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

28 October 2011

Lekkersing Municipal Office
(Richtersveld Municipality)

Dear Sir/ Ms.,

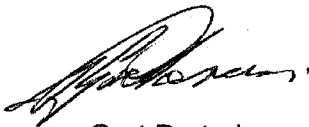
PROPOSED WASTE DISPOSAL SITE, LEKKERSING

Attached please find a copy of the Background Information Document for **public inspection**.

Will you please keep the copy in the office until **Monday 28 November 2011**.

Thank you.

Yours sincerely,



Gert Pretorius
(Pr.Sci.Nat.)

Received:

Name: M Samson Signature: MS

Date: 25-10-2011

Appendix F.6

Registered I&APs

Proposed Waste Disposal Site: Lekkersing										
Registered I&APs										
I&AP	Surname	Name/Init	Affiliation	Address	PO/PB	PO	Code	Fax	Tel / Cell	Email
1	Manager		Namakwa District Municipality		PBag X 20	Springbok	8240	027 712 8040	027 712 8000	
2	Director		Department of Water Affairs		PBag X 313	Pretoria	0001			
3	Smuts	K	SAHRA, APM Unit		PO Box 4637	Cape Town	8000	021 462 4509	021 462 4502	ksmuts@sahra.org.za
4	Head of Dept.		HNC, Dep. Sports, Arts & Cult		PBag X 5004	Kimberley	8300			
5	Fortuin	B	CPA Office		PO Box 85	Alexander Bay	8290			
6	Cllr. Links	W	Cllr		PO Box 90	Kuboes	8292			

Appendix F.7

**Comment & Response Report
(BID; Draft and Final Scoping Report)**

**SCOPING & EIA: PROPOSED WASTE DISPOSAL SITE, LEKKERSING
PORTION 5 OF THE FARM RICHTERSVELD 11**

Scoping & EIR: ISSUES/ COMMENTS & RESPONSES (Background Information Document; First round of Public Participation)			
ISSUE / COMMENT RAISED	COMMENTATOR / S	SOURCE	RESPONSE
NONE			
Scoping & EIR: ISSUES/ COMMENTS & RESPONSES (Draft Scoping Report and Proposed Plan of Study for EIA; Second round of Public Participation)			
ISSUE / COMMENT RAISED	COMMENTATOR / S	SOURCE	RESPONSE
Classification of waste disposal site.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 20 April 2012	General waste ± 5,2m ³ per day. The area has been rated as B- with respect to climatic water balance (CWB). (See Hydrogeological Assessment: Appendix J.2)
Liner design for waste site.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 20 April 2012	No provision is made for the installation of under liners. It is unlikely that leachate will be produced. (See Hydrogeological Assessment: Appendix J.2)
Groundwater info.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 20 April 2012	See Hydrogeological Assessment: Appendix J.2
Storm water management of site.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 20 April 2012	A storm water canal and retaining wall will be constructed (see Site and Flood Line Layout Plan Alternative 2: Appendix D.2)
Apply for the storage of hazardous waste, should it be more than 35m ³ of hazardous waste at any one time.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 20 April 2012	Hazardous waste temporarily stored on site will be less than 35m ³ and will be moved to a solid waste disposal site that has a licence for the disposal of hazardous waste.
D: WA head office will wait for a RoD request from the Department of Environment and Nature Conservation in terms of Section 50(3) of the National Environmental Management: Waste Act, 2008 to issue water related conditions for the Waste Licence.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 20 April 2012	Noted

Scoping & EIR: ISSUES/ COMMENTS & RESPONSES (Final Scoping Report and Proposed Plan of Study for EIA; Third round of Public Participation)

ISSUE / COMMENT RAISED	COMMENTATOR / S	SOURCE	RESPONSE
Classification of waste disposal site.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 16 July 2012	See above.
Liner design for waste site.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 16 July 2012	See above
Groundwater info	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 16 July 2012	See above
Storm water management of site.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 16 July 2012	See above
Apply for the storage of hazardous waste, should it be more than 35m ³ of hazardous waste at any one time.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 16 July 2012	See above
D: WA head office will wait for a RoD request from the Department of Environment and Nature Conservation in terms of Section 50(3) of the National Environmental Management: Waste Act, 2008.	Department of Water Affairs	Letter 16/2/7/F200/D2/Z2/1 dated 16 July 2012	Noted
<u>Alternative Site 1</u> As there is apparently no evidence of any significant archaeological material in this area, the SAHRA Archaeological, Paleontological and Meteorites Unit has no objection to the development (in terms of the archaeological component of the heritage resources) on condition that, if any new evidence of archaeological sites or artefacts, palaeontological fossils, graves or other heritage resources are found during development, construction or mining, SAHRA or an archaeologist must be alerted immediately.	SAHRA	Letter 9/2/066/0001 dated 4 June 2012	Noted
<u>Alternative Site 2</u> SAHRA supports the request for exemption and as there is apparently no evidence of any significant archaeological material in this area, the SAHRA Archaeological, Paleontological and Meteorites Unit has no objection to the development (in terms of the	SAHRA	Letter 9/2/066/0001 dated 4 February 2013	Noted

archaeological component of the heritage resources) on condition that, if any new evidence of archaeological sites or artefacts, paleontological fossils, graves or other heritage resources are found during development, construction or mining, SAHRA and an archaeologist and/or palaeontologist, depending on the nature of the finds, must be alerted immediately.

Appendix F.8

**Richtersveld Municipality Letter dated 6 June 2011 and Proof
of Registered Letter**

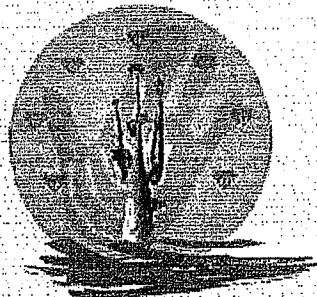
MUNISIPALITEIT RICHTERSVELD MUNICIPALITY

Privaatsak X113
Port Nolloth
8280
Tel: (027) 851 1111
Faks: (027) 851 1101

McDougallsbaai
Kampeerterein:
(027) 851 1110

www.richtersveld.gov.za

Rig alle korrespondensies
aan die
Munisipale Bestuurder



MUNISIPALITEIT
RICHTERSVELD
MUNICIPALITY

Private Bag X113
Port Nolloth
8280
Tel: (027) 851 1111
Fax: (027) 851 1101

McDougalls Bay
Caravan Park:
(027) 851 1110

E-mail: port@lantic.net

Address all correspon-
dence to the
Municipal Manager

Verwys na:
Refer to: (Mnr J.G. Cloete)

06 Junie 2011

Mnr Tashwill Papier
CPA Kantore
ALEXANDERBAAI
8290

Geagte Meneer

VOORGESTELDE OPRIGTING VAN RIOOLDAMME, PYPLYN EN STORTINGSTERREINE IN SANDDRIFT, KUBOES, EKSTEENFONTEIN EN LEKKERSING:

Die Richtersveld Munisipaliteit is tans in die proses om volhoubaarheidsstudie vir die oprigting van riooldamme en stortingsterreine vir die volgende dorpe op te stel: Sanddrift, Kuboes, Eksteenfontein en Lekkersing.

Interne van Regulasie 15, (1) van NEMA word u hiermee kennis gegee in verband met die voorgenome aktiwiteite in Sanddrift, Kuboes, Eksteenfontein en Lekkersing. Aangeheg vind liggingskaarte waar aktiwiteite gaan plaasvind. U word verder uitgenooi om deel te neem aan die publieke deelname proses soos voorgeskryf in Regulasie 54 van (NEMA) National Environmental Management Act / Nasionale Omgewingsbestuurswet.

Indien daar enige vrae vir duidelikheid is rondom die proses kan u gerus die skrywer hiervan kontak of alternatiewelik vir Mnr Gert Pretorius (Omgewingskonsultant) by:

Tel / Faks: 021 919 4048
Cell : 084 458 9844
E-mail : gpec12@telkomsa.net

Appendix F.9

Registered Letters: Draft Scoping Report & Proposed Plan of Study for EIA

EL

PROPOSED WASTE DISPOSAL SITE, LEKKERSING

Address List Registered Post: Copies of Draft Scoping Report and Plan of Study for EIA - 8 February 2012

The Director
Environmental Quality Management
(Pollution & Waste Management)
Department of Environment and Nature Conservation
Private Bag X 6102
KIMBERLEY
8300

ORDINARY PARCEL
ShareCall 0800 111 502 www.sapo.co.za
PE 654 242 678 ZA
CUSTOMER COPY 301016

The Director
Environmental Quality Management
Department of Environment and Nature Conservation
Private Bag X 6102
KIMBERLEY
8300

ORDINARY PARCEL
ShareCall 0800 111 502 www.sapo.co.za
PE 654 242 620 ZA
CUSTOMER COPY 301016

Mr. B. Cornelissen
Environmental Quality Management
(Pollution & Waste Management)
Department Environment & Nature Conservation
Private Bag X 16
SPRINGBOK
8240

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sapo.co.za
RD 641 748 307 ZA
CUSTOMER COPY 301028R

Ms. L. Karsten
Department of Environment & Nature Conservation
Private Bag X16
SPRINGBOK
8240

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sapo.co.za
RD 641 748 298 ZA
CUSTOMER COPY 301028R

Municipal Manager
Namakwa District Municipality
Private Bag X 20
SPRINGBOK
8240

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sapo.co.za
RD 641 748 219 ZA
CUSTOMER COPY 301028R

Municipal Manager
Richtersveld Municipality
Private Bag X 113
PORT NOLLOTH
8280

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0800 111 502 www.sapo.co.za
RD 641 748 240 ZA
CUSTOMER COPY 301028R

TYGER VALLEY 7536
08 FEB 2012
FOLIO 8

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

8 February 2012

The Director
Environmental Quality Management
(Pollution & Waste Management)
Department of Environment and Nature Conservation
Private Bag X 6102
KIMBERLEY
8300

Dear Sir/ Ms,

DRAFT SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA: APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING

Attached please find two copies of the Draft Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Draft Scoping Report and Proposed Plan of Study for EIA is Tuesday 20 March 2012.

Copies of the Draft Scoping Report and Proposed Plan of Study for EIA have been sent to the following authorities:

1. Department of Environment and Nature Conservation, Kimberley.
2. Department of Water Affairs, Pretoria
3. SAHRA, APM Unit, Cape Town.
4. Heritage Northern Cape, Kimberley.

(Copies of letters attached)

P.O.Box/Posbus 3731
TYGERVALLEY/
TYGERVALLEI, 7536
Phone/Tel: (021) 919 4048
Fax/Faks: (021) 919 4048
Cell/Sel: 082 458 9844

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

8 February 2012

The Director
Department of Environment and Nature Conservation
Private Bag X 6102
KIMBERLEY
8300

Dear Sir/ Ms,

DRAFT SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA: APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING

Attached please find two copies of the Draft Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Draft Scoping Report and Proposed Plan of Study for EIA is Tuesday 20 March 2012.

Copies of the Draft Scoping Report and Proposed Plan of Study for EIA have been sent to the following authorities:

1. Department of Environment and Nature Conservation (Pollution & Waste Management), Kimberley.
 2. Department of Water Affairs, Pretoria
 3. SAHRA, APM Unit, Cape Town.
 4. Heritage Northern Cape, Kimberley.
- (Copies of letters attached)

Please contact me if you require any further information.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

CC: Ms. L. Karsten, Department of Environment & Nature Conservation, Private Bag X16, SPRINGBOK, 8240.

: Municipal Manager, Richtersveld Municipality, Private Bag X 113, Port Nolloth, 8280

: Mr. W. Cloete, BVi Consulting Engineers, P. O. Box 683, Springbok, 8240.

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

8 February 2012

Ms. L. Karsten
Department of Environment & Nature Conservation
Private Bag X16
SPRINGBOK
8240

Dear Ms. Karsten,

**DRAFT SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA:
APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL
SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING**

Attached please find a copy of the Draft Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Draft Scoping Report and Proposed Plan of Study for EIA is Tuesday 20 March 2012.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

CC: The Director, Department of Environment and Nature Conservation, Private Bag X 6102, Kimberley, 8300.

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

8 February 2012

Municipal Manager
Richtersveld Municipality
Private Bag X 113
PORT NOLLOTH
8280

Dear Sir/ Ms.,

**DRAFT SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA:
APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL
SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING**

Attached please find a copy of the Draft Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Draft Scoping Report and Proposed Plan of Study for EIA is Tuesday 20 March 2012.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

8 February 2012

Dr. M. Galimberti
APM Impact Assessor
South African Heritage Resources Agency
P. O. Box 4637
CAPE TOWN
8000

Dear Dr. Galimberti,

**DRAFT SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA:
APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL
SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING**

Attached please find a copy of the Draft Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Draft Scoping Report and Proposed Plan of Study for EIA is Tuesday 20 March 2012.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

CC: Head of Department, Heritage Northern Cape, Department of Sports, Arts and Culture, Private Bag X 5004, Kimberley, 8300.

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

8 February 2012

Ms. B. Fortuin
CPA Office
P O Box 85
ALEXANDER BAY
8290

Dear Ms. Fortuin,

**DRAFT SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA:
APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL
SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING**

Attached please find a copy of the Draft Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Draft Scoping Report and Proposed Plan of Study for EIA is Tuesday 20 March 2012.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

Appendix F.10

Registered Letters: Final Scoping Report & Proposed Plan of Study for EIA

EL

PROPOSED WASTE DISPOSAL SITE, LEKKERSING

Address List Registered Post: Copies of Final Scoping Report and Proposed Plan of Study for EIA – 24 April 2012

Municipal Manager
Namakwa District Municipality
Private Bag X 20
SPRINGBOK
8240

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 607 890 625 ZA
CUSTOMER COPY 301028R

Municipal Manager
Richtersveld Municipality
Private Bag X 113
PORT NOLLOTH
8280

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 607 890 719 ZA
CUSTOMER COPY 301028R

Director
Department of Water Affairs
Private Bag X 313
PRETORIA
0001

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 607 890 736 ZA
CUSTOMER COPY 301028R

Dr. M. Galimberti
APM Impact Assessor
South African Heritage Resources Agency
P. O. Box 4637
CAPE TOWN
8000.

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 607 890 648 ZA
CUSTOMER COPY 301028R

Head of Department
Heritage Northern Cape
Department of Sports, Arts and Culture
Private Bag X 5004
KIMBERLEY
8300

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 607 890 634 ZA
CUSTOMER COPY 301028R

Ms. B. Fortuin
CPA Office
P O Box 85
ALEXANDER BAY
8290

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 607 890 722 ZA
CUSTOMER COPY 301028R

Cllr. W. Links
P. O. Box 90
KUBOES
8292

REGISTERED LETTER
(with a domestic insurance option)
ShareCall 0860 111 502 www.sapo.co.za
RD 607 890 705 ZA
CUSTOMER COPY 301028R

TYGER VALLEY 7536
24 APR 2012
FOLIO 3

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

24 April 2012

Municipal Manager
Namakwa District Municipality
Private Bag X 20
SPRINGBOK
8240

Dear Sir/ Ms,

**FINAL SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA:
APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL
SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING**

Attached please find a copy of the Final Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Final Scoping Report and Proposed Plan of Study for EIA is Monday 21 May 2012.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

24 April 2012

Director
Department of Water Affairs
Private Bag X 313
PRETORIA
0001

For attention: Ms. W. Moolman

Dear Ms. Moolman,

**FINAL SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA:
APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL
SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING**

Attached please find a copy of the Final Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Final Scoping Report and Proposed Plan of Study for EIA is Monday 21 May 2012.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011
D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

24 April 2012

Head of Department
Heritage Northern Cape
Department of Sports, Arts and Culture
Private Bag X 5004
KIMBERLEY
8300

Dear Sir/ Ms,

**Final SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA:
APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL
SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING**

Attached please find a copy of the Final Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Final Scoping Report and Proposed Plan of Study for EIA is Monday 21 May 2012.

Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

D: E&NC Ref. No: NC/NAM/RICHT/LEK/02/2011

D: E&NC Ref. No: NC/BA/NAM/RIC/LEK1/2011

24 April 2012

Cllr. W. Links
P. O. Box 90
KUBOES
8292

Dear Cllr. Links,

**FINAL SCOPING REPORT AND PROPOSED PLAN OF STUDY FOR EIA:
APPLICATION FOR THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL
SITE AND ASSOCIATED INFRASTRUCTURE, LEKKERSING**

Attached please find a copy of the Final Scoping Report and Proposed Plan of Study for EIA for your information.

The closing date for comment on the Final Scoping Report and Proposed Plan of Study for EIA is Monday 21 May 2012.

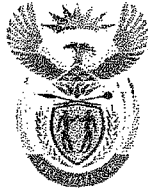
Yours faithfully,



Gert Pretorius (Pr.Sci.Nat.)

Appendix G

**Department of Water Affairs
(Letters 16/2/7/F200/D2/Z2/1 dated 16 July 2012 and 20 April
2012)**



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X313, Pretoria, 0001, Sedibeng Building, Schoeman Street, Pretoria
Tel: (012) 336-7500, Fax: (012) 323-4472/(012) 326-2715, www.dwaf.gov.za

F - ☒ (012) 323 0321

E - ☒ moolmanw@dwa.gov.za

173-WM-16-07-2012

✉ Wilna Moolman

ⓧ (012) 336 7557

📁 16/2/7/F200/D2/Z2/1 *Lekkering*
16/2/7/F200/D10/Z1/1
16/2/7/F200/D2/Z1/1
16/2/7/F100/Z1/1, 16/2/7/D800/Z5/1

ENVIRO LOGIC
P.O. Box 3731
TYGERVALLEY
7536

ATTENTION: Gert Pretorius

FINAL SCOPING REPORTS AND PROPOSED PLANS OF STUDIES FOR THE ENVIRONMENTAL IMPACT ASSESSMENTS: APPLICATION FOR THE PROPOSED CONSTRUCTION OF THE WASTE DISPOSAL SITES AND ASSOCIATED INFRASTRUCTURE FOR LEKKERSING, PORT NOLLOTH, EKSTEENFONTEIN, KUBOES AND SANDDRIFT SITES.

The Department of Water Affairs (DWA) head office herewith acknowledges the receipt of the Final Scoping Reports and Proposed Plans of Studies for the EIA's for the proposed construction of the waste disposal sites and associated infrastructure for the Lekkering, Port Nolloth, Eksteenfontein, Kuboes and Sanddrift sites dated April 2012 drafted by ENVIRO LOGIC.

Also please refer to my letter and comments dated 20 April 2012 on the Draft Scoping Reports (February 2012).

Please note that the procedure for **comments** on BA's/EIA's or Scoping Reports. Comments must be obtained from the **DWA regional offices**, in this case the Upington office in the Northern Cape. All requests for waste licence **RoD's** in terms of section 50(3) of the National Environmental Management: Waste Act (2008) will be obtained from the **DWA head office** through the Provincial Departments (general waste) or the Department of Environmental Affairs in the case of hazardous waste.

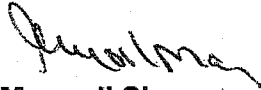
Please find the following general comments out of the documents mentioned above:

- Include the classification of each waste disposal site. (Minimum Requirements for Waste Disposal by Landfill document, 1998 (MR) section 3.)
- Include the liner design for each site. (MR Appendix 8.2)
- Groundwater info.
- Storm water management of each site.
- Apply for the storage of hazardous waste, should it be more than 35m³ of hazardous waste at any one time.

DWA head office will wait for a RoD request from the Department of Environment and Nature Conservation in terms of section 50(3) of the National Environmental Management: Waste Act, 2008.

Please note that it will not be possible for DWA to issue a RoD with water related conditions to be included in the Waste Licence if the above information are not available.

Should you have any queries please do not hesitate to contact this office.



Mr Maxwell Sirenya
DIRECTOR - GENERAL

Letter signed by Wilna Moolman

Designation: Control Environmental Officer: Resource Protection and Waste

Date: 16 July 2012

Copies to: DWA Upington Regional Office, Shaun Cloete
Department of Environment and Nature Conservation, Kimberley
Department of Environment and Nature Conservation, Springbok



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X313, Pretoria, 0001, Sedibeng Building, Schoeman Street, Pretoria
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68-WM-20-04-2012

✉ Wilna Moolman

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☒ 16/2/7/F200/D2/Z2/1

16/2/7/F200/D10/Z1/1

16/2/7/F200/D2/Z1/1

16/2/7/F100/Z1/1, 16/2/7/D800/Z5/1

ENVIRO LOGIC
P.O. Box 3731
TYGERVALLEY
7536

ATTENTION: Gert Pretorius

DRAFT SCOPING REPORTS AND PROPOSED PLANS OF STUDIES FOR THE ENVIRONMENTAL IMPACT ASSESSMENTS: APPLICATION FOR THE PROPOSED CONSTRUCTION OF THE WASTE DISPOSAL SITES AND ASSOCIATED INFRASTRUCTURE FOR LEKKERSING, PORT NOLLOTH, EKSTEENFONTEIN, KUBOES AND SANDDRIFT SITES.

The Department of Water Affairs (DWA) head office herewith acknowledges the receipt of the Draft Scoping Reports and Proposed Plans of Studies for the EIA's for the proposed construction of the waste disposal sites and associated infrastructure for the Lekkersing, Port Nolloth, Eksteenfontein, Kuboes and Sanddrift sites dated February 2012 drafted by ENVIRO LOGIC.

Please note that the procedure for **comments** on BA's/EIA's or Scoping Reports must be obtained from the **DWA regional offices**, in this case the Upington office in the Northern Cape. All requests for waste licence **RoD's** in terms of section 50(3) of the National Environmental Management: Waste Act (2008) will be obtained from the **DWA head office** through the Provincial Departments in case of general waste or the Department of Environmental Affairs in the case of hazardous waste.

Please find the following general comments out of the documents mentioned above:

- Include the classification of each waste disposal site. (Minimum Requirements for Waste Disposal by Landfill document, 1998 (MR) section 3.)
- Include the liner design for each site. (MR Appendix 8.2)
- Groundwater info.
- Storm water management of each site.
- Apply for the storage of hazardous waste, should it be more than 35m³ of hazardous waste at any one time.

DWA head office will wait for a RoD request from the Department of Environment and Nature Conservation in terms of section 50(3) of the National Environmental Management: Waste Act, 2008 to issue water related conditions for the Waste Licence.

Should you have any queries please do not hesitate to contact this office.

Mr Maxwell Sirenya
DIRECTOR - GENERAL

Letter signed by Wilna Moolman

Designation: Control Environmental Officer: Resource Protection and Waste

Date: 20 April 2012

Appendix H

SAHRA

(Letters 9/2/066/0001 dated 4 February 2013 and 4 June 2012)

Gert Pretorius

From: KATHRYN SMUTS <KSMUTS@sahra.org.za>
Sent: 04 February 2013 10:27 AM
To: kcwangae@gmail.com; ratha.timothy@gmail.com; gpec12@telkomsa.net; acrm@waccess.co.za
Subject: SAHRA review comment Lekkersing Waste Alt2
Attachments: SAHRA response Lekkersing Waste Alt2.pdf

Dear Mr Pretorius,

Attached please find the SAHRA review comment for the proposed waste facility at Lekkersing. This comment is in response to the Letter of Exemption regarding the Alternative site location.

Kind regards,
Katie Smuts

Heritage Officer: Archaeology, Palaeontology and Meteorites
South African Heritage Resources Agency
111 Harrington Street
PO Box 4637, Cape Town 8000,
South Africa
E-mail: ksmuts@sahra.org.za
Phone : +27 (0)21 462 4502
Fax : +27 (0)21 462 4509
Web : www.sahra.org.za

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Any views expressed in this communication are those of the sender except where the sender specifically states them to be

those of South African Heritage Resources Agency (SAHRA).

Please note that the recipient must scan this email and any attached files for viruses and the like. SAHRA accepts no liability of whatever nature for any loss, liability, damage or expense resulting directly or indirectly from the access and/or downloading of any files which are attached to this e-mail message.

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Lekkersing Waste

Our Ref: 9/2/066/0001

Enquiries: Kathryn Smuts
Tel: 021 462 4502
Email: ksmuts@sahra.org.za
CaseID: 1473

Date: Monday February 04, 2013

Page No: 1



Final Comment

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

Attention: Mr Gert Pretorius

Enviro Logic
PO Box 3731
Tygervalley
7536

THE PROPOSED LEKKERSING WASTE FACILITY NORTHERN CAPE PROVINCE

Bvi Consulting Engineers has proposed the development of a waste facility at Lekkersing in the Northern Cape. The waste facility will be located on Portion 5 of Farm Richtersveld 11. The development will entail the excavation of 4-5m long trenches, dug 2-3m deep and the construction of a 950m access road, and will be fenced for security purposes. The area has no significant landscape features and the surrounding area is used for grazing.

The original AIA conducted by the archaeologist surveyed only the preferred location alternative. The AIA was reviewed by SAHRA and consent was given for the development, but it was requested that the alternative site be surveyed.

This survey was conducted and the archaeologist found no heritage resources on the site and noted that it is severely degraded and disturbed. The archaeologist therefore submitted a letter requesting exemption from further archaeological studies.

Case Decision:

SAHRA supports the request for exemption and as there is apparently no evidence of any significant archaeological material in this area, the SAHRA Archaeology, Palaeontology and Meteorites Unit has no objection to the development (in terms of the archaeological component of the heritage resources) on condition that, if any new evidence of archaeological sites or artefacts, palaeontological fossils, graves or other heritage resources are found during development, construction or mining, SAHRA and an archaeologist and/or palaeontologist, depending on the nature of the finds, must be alerted immediately.

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

Yours faithfully



The South African Heritage Resources Agency

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



SOUTH AFRICAN HERITAGE RESOURCES AGENCY
 111 HARRINGTON STREET, CAPE TOWN, 8001
 PO BOX 4637, CAPE TOWN, 8000
 TEL: 021 462 4502 FAX: 021 462 4509

FOR ATTENTION: PHRA: Northern Cape

FOR OFFICIAL USE ONLY:

SAHRA File No: **9/2/066/0001**
 Date Received: **29 May 2012**
 Date of Comment: **4 June 2012**
 Sent to Peer Review:
 Date to Peer Review:
 SAHRA Contact Person: **Ms Katie Smuts**
 DEA Ref No: **12/9/11/L705/8**
 DE&NC Ref No: **NC/NAM/RICHT/LEK/02/2011**
 DE&NC Ref No: **NC/BA/NAM/RIC/LEK1/2011**

REVIEW COMMENT ON ARCHAEOLOGICAL IMPACT ASSESSMENT

**BY ARCHAEOLOGY, PALAEOLOGY AND METEORITES UNIT OF THE SOUTH AFRICAN HERITAGE
 RESOURCES AGENCY**

South Africa has a unique and non-renewable archaeological and palaeontological heritage. Archaeological and palaeontological sites are protected in terms of the National Heritage Resources Act (Act No 25 of 1999) and may not be disturbed without a permit. Archaeological Impact Assessments (AIAs) and Palaeontological Impact Assessments (PIAs) identify and assess the significance of the sites, assess the potential impact of developments upon such sites, and make recommendations concerning mitigation and management of these sites. On the basis of satisfactory specialist reports SAHRA or the relevant heritage resources agency can assess whether or not it has objection to a development and indicate the conditions upon which such development might proceed and assess whether or not to issue permission to destroy such sites.

AIAs and PIAs often form part of the heritage component of an Environmental Impact Assessment or Environmental Management Plan. They may also form part of a Heritage Impact Assessment called for in terms of section 38 of the National Heritage Resources Act, Act No. 25, 1999. They may have other origins. In any event they should comply with basic minimum standards of reporting as indicated in SAHRA Regulations and Guidelines.

This form provides review comment from the Archaeologist of the relevant heritage resources authority for use by Heritage Managers, for example, when informing authorities that have applied to SAHRA for comment and for inclusion in documentation sent to environmental authorities. It may be used in conjunction with Form B, which provides relevant peer review comment.

- A. PROVINCIAL HERITAGE RESOURCES AUTHORITY: Northern Cape**.....
- B. AUTHOR(S) OF REPORT: Mr Jonathan Kaplan**
- C. ARCHAEOLOGY CONTRACT GROUP: Agency for Cultural Resource Management**
- D. CONTACT DETAILS: 5 Stuart Rd, Rondebosch, Tel: 021 685 7589,**
Cell: 082 321 0172, acrm@waccess.co.za
- E. DATE OF REPORT: August 2011**
- F. TITLE OF REPORT: ARCHAEOLOGICAL IMPACT ASSESSMENT THE PROPOSED
 LEKKERSING WASTE SITE NORTHERN CAPE.**
- G. Please circle as relevant: Archaeological component of EIA / EMP / HIA / CMP
 Other (Specify) FINAL SCOPING REPORT**
- H. REPORT COMMISSIONED BY (CONSULTANT OR DEVELOPER): Enviro Logic**
- I. CONTACT DETAILS: Mr Gert Pretorius Enviro Logic PO Box 3731, Tyger
 Valley 7536, fax: 021 919 4048 cell: 082 458 9844**
- J. COMMENTS:**

SAHRA (Katie Smuts / Colette Scheermeyer) or an archaeologist, or palaeontologist depending on the nature of the finds, must be alerted immediately.

SIGNATURE OF ARCHAEOLOGIST PROCESSING REPORT: 

EMAIL: ksmuts@sahra.org.za.....

SIGNATURE OF SAHRA HEAD ARCHAEOLOGIST: 

EMAIL: cscheermeyer@sahra.org.za

NAME OF HERITAGE RESOURCES AGENCY: SAHRA.....

PLEASE NOTE THAT THE COMMENT (ABOVE OR APPENDED) CONSTITUTES THE COMMENT OF THE HERITAGE RESOURCES AGENCY ARCHAEOLOGIST AND THAT ANY DEVELOPMENT THAT INVOLVES DESTRUCTION OF ANY ARCHAEOLOGICAL/PALAEONTOLOGICAL SITE IS STILL SUBJECT TO A PERMIT/PERMISSION FOR DESTRUCTION OF SUCH SITE GIVEN TO THE DEVELOPER BY THE RELEVANT HERITAGE RESOURCES AGENCY ARCHAEOLOGICAL AND PALAEONTOLOGICAL PERMIT COMMITTEE (THIS WILL BE SUBJECT TO APPROVAL OF THE PHASE 2 OR ARCHAEOLOGICAL/ PALAEONTOLOGICAL MITIGATION AS NECESSARY). THIS REPORT MAY BE TAKEN ONLY AS APPROVAL IN TERMS OF SECTION 35 OF THE NATIONAL HERITAGE RESOURCES ACT. THE PROVINCIAL MANAGER OF THE HERITAGE RESOURCES AUTHORITY MUST ADVISE AS TO APPROVAL IN TERMS OF HERITAGE ISSUES ENCOMPASSED BY OTHER ASPECTS OF THE LEGISLATION, SUCH AS ISSUES OF THE BUILT ENVIRONMENT (STRUCTURES (E.G. FARM HOUSES), OVER 60 YEARS), INDIGENOUS KNOWLEDGE SYSTEMS OR OF CULTURAL LANDSCAPES AS THIS IS NOT WITHIN THE SCOPE OF THE ARCHAEOLOGIST.

PLEASE NOTE THAT SAHRA IS NOW RESPONSIBLE FOR GRADE I HERITAGE RESOURCES (AND EXPORT) AND THE PROVINCIAL HERITAGE RESOURCES ARE RESPONSIBLE FOR GRADE II AND GRADE III HERITAGE RESOURCES, EXCEPT WHERE THERE IS AN AGENCY ARRANGEMENT WITH THE PROVINCIAL HERITAGE RESOURCES AUTHORITY.

Appendix I

NEMA Principles

CHAPTER 1

NATIONAL ENVIRONMENTAL MANAGEMENT PRINCIPLES

2. Principles

(1) The principles set out in this section apply throughout the Republic to the actions of all organs of state that may significantly affect the environment and -

(a) shall apply alongside all other appropriate and relevant considerations, including the State's responsibility to respect, protect, promote and fulfill the social and economic rights in Chapter 2 of the Constitution and in particular the basic needs of categories of persons disadvantaged by unfair discrimination;

(b) serve as the general framework within which environmental management and implementation plans must be formulated;

(c) serve as guidelines by reference to which any organ of state must exercise any function when taking any decision in terms of this Act or any statutory provision concerning the protection of the environment;

(d) serve as principles by reference to which a conciliator appointed under this Act must make recommendations; and

(e) guide the interpretation, administration and implementation of this Act, and any other law concerned with the protection or management of the environment.

(2) Environmental management must place people and their needs at the forefront of its concern, and serve their physical, psychological, developmental, cultural and social interests equitably.

(3) Development must be socially, environmentally and economically sustainable.

(4) (a) Sustainable development requires the consideration of all relevant factors including the following:

(i) That the disturbance of ecosystems and loss of biological diversity are avoided, or, where they cannot be altogether avoided, are minimised and remedied;

(ii) that pollution and degradation of the environment are avoided, or, where they cannot be altogether avoided, are minimised and remedied;

(iii) that the disturbance of landscapes and sites that constitute the nation's cultural heritage is avoided, or where it cannot be altogether avoided, is minimised and remedied;

(iv) that waste is avoided, or where it cannot be altogether avoided, minimised and reused or recycled where possible and otherwise disposed of in a responsible manner;

(v) that the use and exploitation of non-renewable natural resources is responsible and equitable, and takes into account the consequences of the depletion of the resource;

(vi) that the development, use and exploitation of renewable resources and the ecosystems of which they are part do not exceed the level beyond which their integrity is jeopardised;

(vii) that a risk-averse and cautious approach is applied, which takes into account the limits of current knowledge about the consequences of decisions and actions; and

(viii) that negative impacts on the environment and on people's environmental rights be anticipated and prevented, and where they cannot be altogether prevented, are minimised and remedied.

(b) Environmental management must be integrated, acknowledging that all elements of the environment are linked and interrelated, and it must take into account the effects of decisions on all aspects of the environment and all people in the environment by pursuing the selection of the best practicable environmental option.

Appendix J

Specialist reports

Appendix J.1

**Archaeological Impact Assessment:
Alternative 1**

Agency for Cultural Resource Management

Specialists in Archaeological Studies and Heritage Resource Management

No. 5 Stuart Road Rondebosch, 7700 Phone/Fax 021- 685 7589
E-mail: acrm@wcaccess.co.za Cellular: 082 321 0172

30 August, 2011

Att: Mr Winston Cloete
Bvi Consulting Engineers
P. O. Box 683
Springbok
8240

Dear Mr Cloete,

ARCHAEOLOGICAL IMPACT ASSESSMENT THE PROPOSED LEKKERSING WASTE FACILITY NORTHERN CAPE PROVINCE

1. Introduction

Bvi Consulting Engineers, on behalf of the Richtersveld Municipality commissioned the Agency for Cultural Resource Management to conduct an Archaeological Impact Assessment (AIA) for the proposed construction of a waste refuse facility at Lekkersing in the Richtersveld region of the Northern Cape Province (Figures 1 & 2).

The proposed project entails the following:

- Construction of a waste refuse facility
- Installation of security fencing around the facility.
- Construction of a ± 0.95 km long gravel access road

The footprint area for the proposed waste site is about 2.8 ha.

The proposed activities are to be located on Portion 5 of Farm Richtersveld 11, Namaqualand.

Trenches (4m - 5m wide and 2m - 3m deep) will be excavated in which general waste will be disposed. After a trench has reached its capacity it will be closed off by covering it with a final layer of soil and a new trench will be opened up.

In terms of Section 38 (1) (c) of the National Heritage Resources Act 1999 (Act 25 of 1999), an AIA of the proposed development is required if the development footprint area is more than 5000 m². This is to determine if the area contains heritage sites and to take the necessary steps to ensure that they are not damaged or destroyed during development.

4. Approach to the study

The proposed 2.8 ha footprint area was searched for archaeological remains.

The route for the proposed 0.95 km access road was walked and searched for archaeological remains.

The site visit and assessment took place on 03rd August, 2011.

5. Constraints and limitations

There were no constraints or limitations associated with the study.

6. Identification of potential risks

There are no archaeological risks associated with the project. The proposed footprint area is not a sensitive archaeological landscape.

It is highly unlikely, but unmarked human burials or cache of ostrich eggshell may be uncovered or exposed during excavations for waste trenches.

7. Results of the study

7.1 The proposed waste site

No archaeological remains were documented in the footprint area for the proposed waste site.

7.2 The proposed gravel access road

No archaeological remains were documented in the proposed gravel access road.

8. Impact statement

The Archaeological Impact Assessment has identified no significant impacts to pre-colonial archaeological material that will need to be mitigated, prior to proposed development activities.

9. Recommendations

The proposed project is deemed to be viable.

Should any unmarked human remains, or features such as buried ostrich eggshell caches be exposed or uncovered during excavations and bulk earthworks these must immediately be reported to the South African Heritage Resources Agency (Ms Mariagrazia Galimberti 021 4624502).

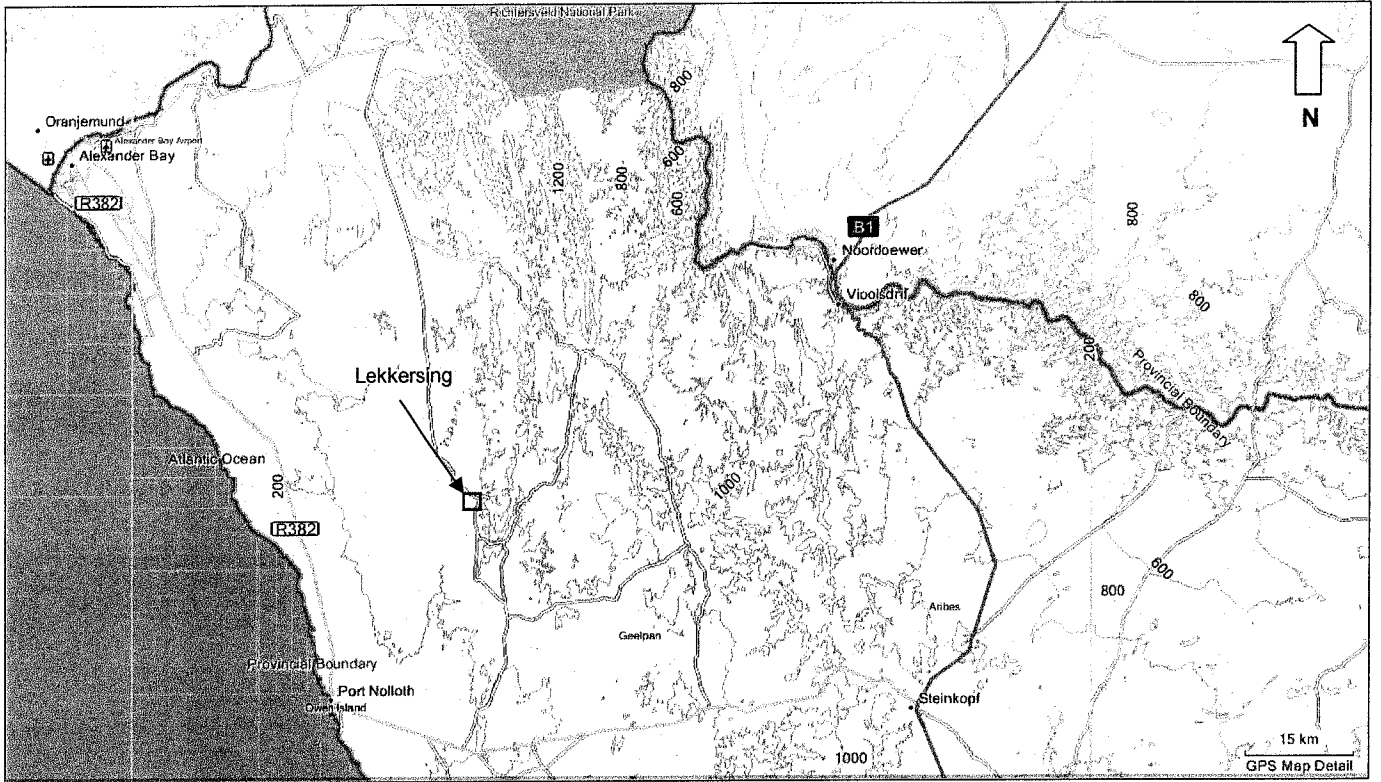


Figure 1. Locality map: Regional context

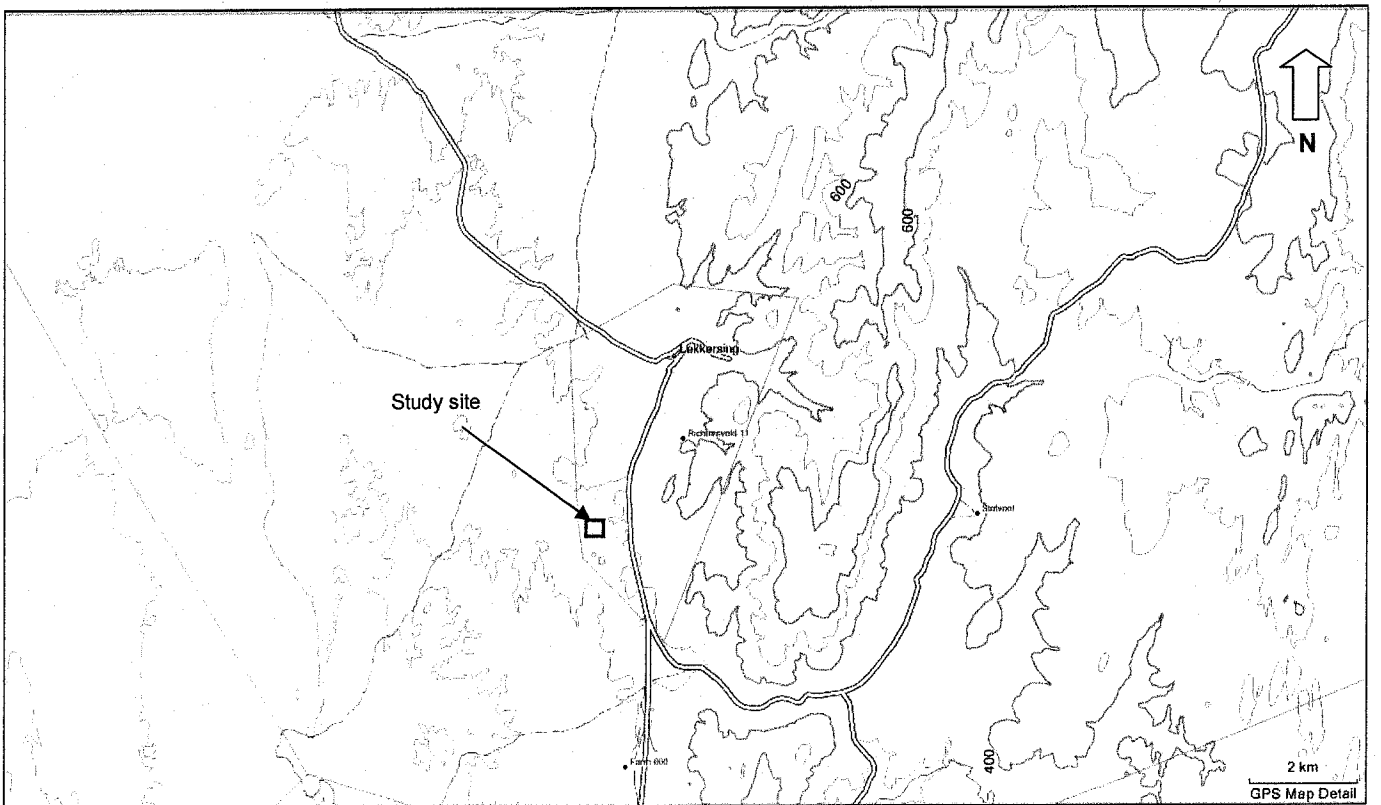


Figure 2. Locality map: Local context



Figure 4. View of the proposed site facing south east



Figure 5. View of the proposed site facing west

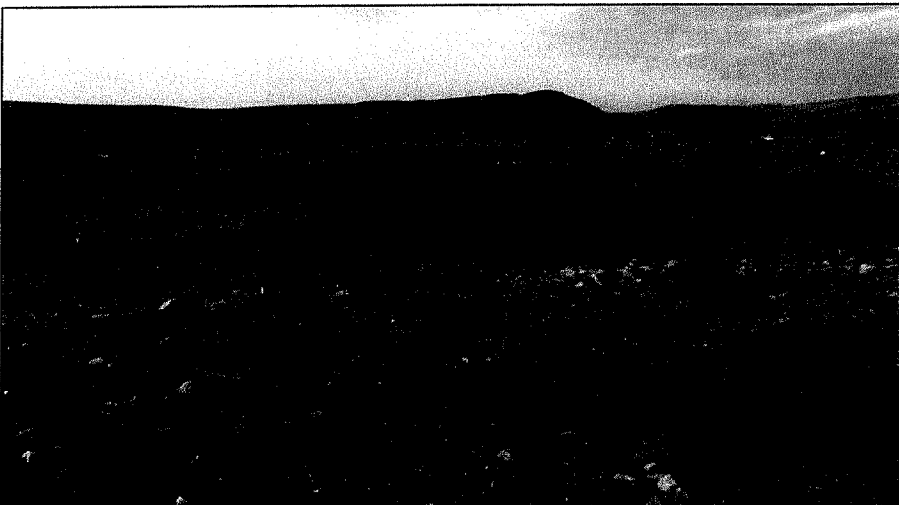


Figure 6. View of the proposed site facing west

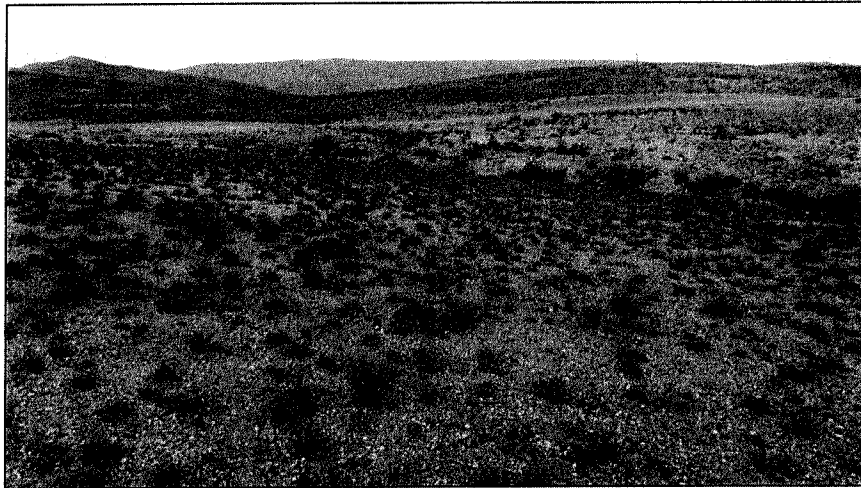


Figure 10. View of the proposed access road facing east. The main road to Lekkersing is in background of the plate

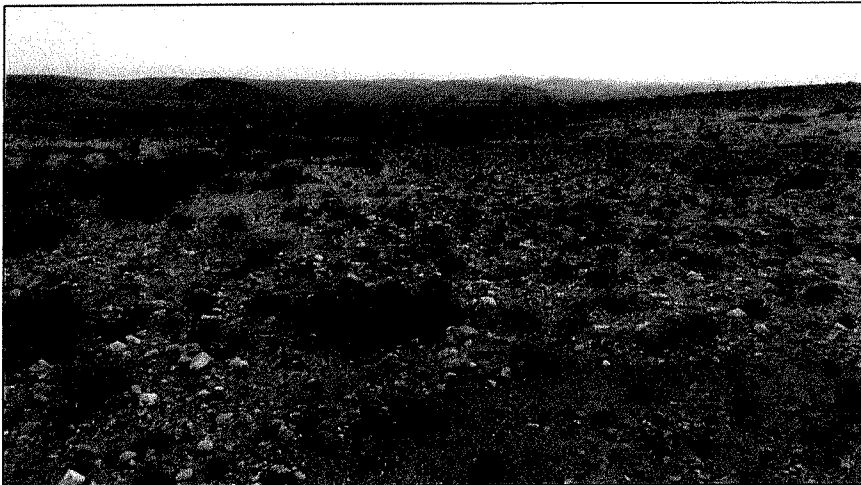


Figure 11. View of the proposed road facing south toward the proposed waste site.

Appendix J.2

Application for Exemption to Conduct an Archaeological Study: Alternative 2

Agency for Cultural Resource Management

Specialists in Archaeological Studies and Heritage Resource Management

5 Stuart Road Rondebosch 7700 Phone/Fax 021-685 7589
E-mail: acrm@wcaccess.co.za Cellular: 082 321 0172

05 December, 2012

Att: Ms Katie Smuts
South African Heritage Resources Agency
PO Box 4637
Cape Town
8000

Dear Ms Smuts,

RECOMMENDED EXEMPTION FROM HAVING TO CONDUCT AN ARCHAEOLOGICAL STUDY: THE PROPOSED CONSTRUCTION OF A WASTE DISPOSAL FACILITY AT LEKKERSING (ALTERNATIVE 2), NORTHERN CAPE PROVINCE

1. Introduction

Lekkersing is a small Nama settlement located about 60 kms east of Port Nolloth in Northern Cape Province (Figure 1).

A Phase 1 Archaeological Impact Assessment (AIA) for the proposed Lekkersing Waste Disposal Facility (Alternative 1) was conducted in 2011 (Kaplan 2011a). This site has now been found to be unsuitable for development and a new site (Alternative 2) has subsequently been identified (Figure 2).

The proposed activity includes the digging of trenches (4m - 5m wide & 2m - 3m deep), in which general waste will be disposed. After a trench has reached its capacity it will be closed off by covering it with a final layer of soil and a new trench will be opened up. The footprint area for the proposed Alternative 2 waste site is about 1.5 ha. The proposed activities are to be located on Portion 5 of Farm Richtersveld 11, Namaqualand.

2. Archaeology in the Lekkersing area

Some archaeological work has taken place in Lekkersing (Kaplan 2011a, b), but no remains were documented. No graves sites were located, either.

3. Description of the environment.

An aerial photograph indicating the layout of the proposed Lekkersing Waste Site (Alternative 2) is illustrated in Figure 3. The proposed site is located about 1 km northwest of the village, more or less in the same area in which an AIA for the proposed Lekkersing Oxidation Dam was done (Kaplan 2011a).

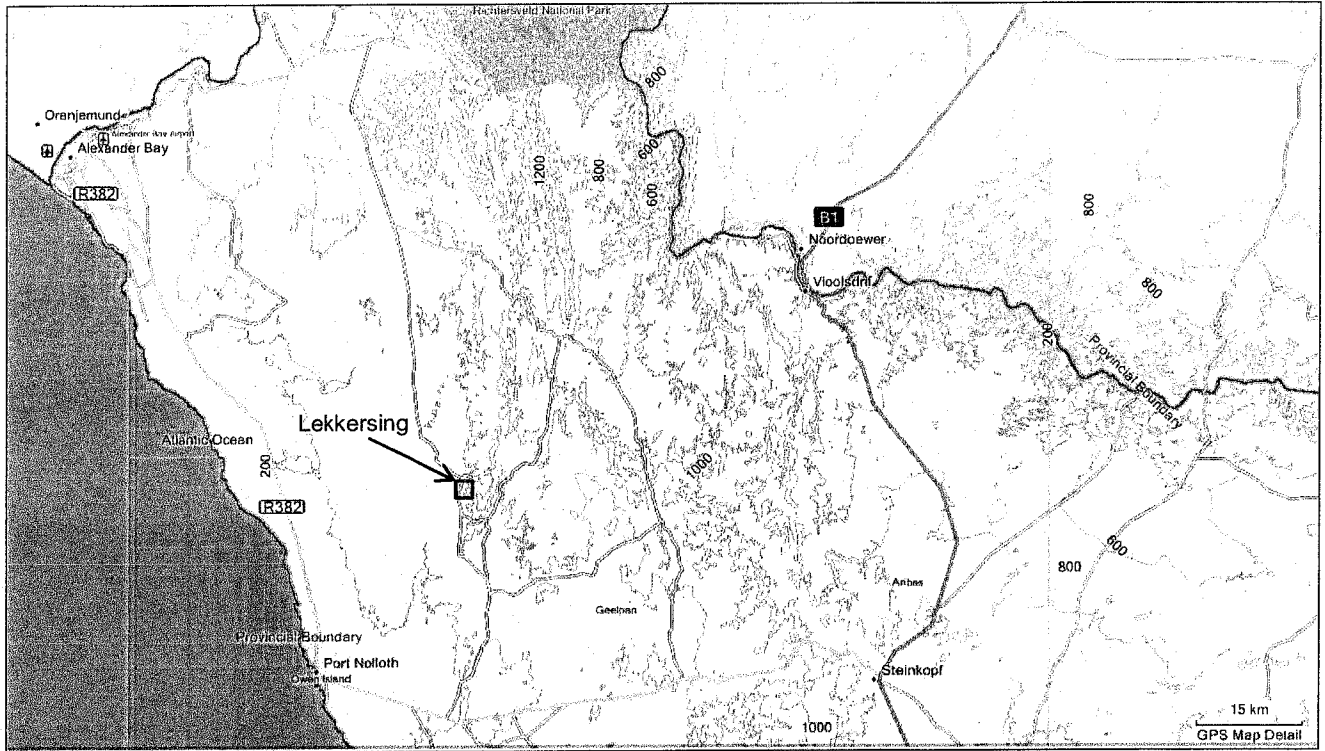


Figure 1. Locality map: Regional context

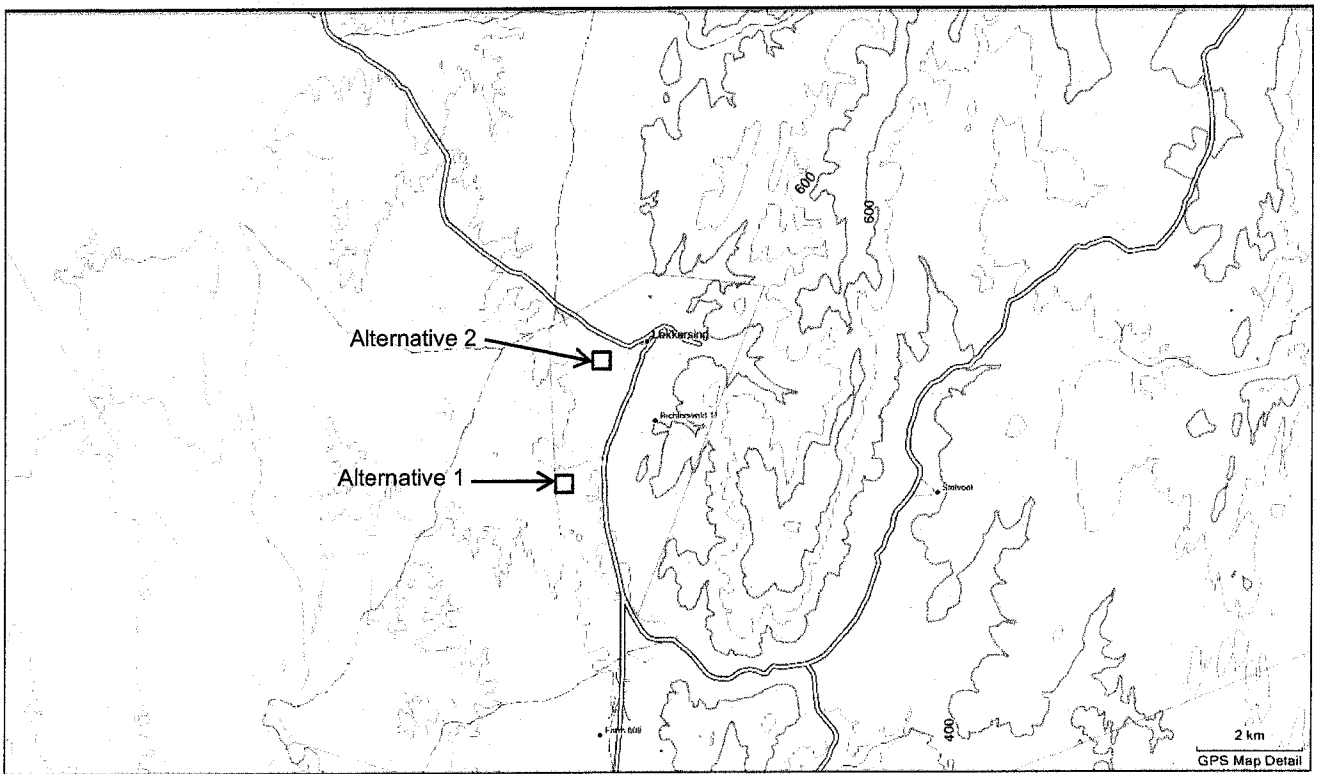


Figure 2. Locality map: Local context

Appendix J.3

Hydrogeological Assessment

HYDROGEOLOGICAL ASSESSMENT OF SITES PROPOSED FOR SOLID WASTE DISPOSAL AT LEKKERSING IN THE RICHTERSVELD MUNICIPALITY

Report Prepared for
BVi Consulting Engineers
Report Number 434931/3a



Report Prepared by



November 2011

HYDROGEOLOGICAL ASSESSMENT OF SITES PROPOSED FOR SOLID WASTE DISPOSAL AT LEKKERSING IN THE RICHTERSVELD MUNICIPALITY

BVi Consulting Engineers

**P O Box 683
Springbok
8240**

SRK Consulting (South Africa) (Pty) Ltd.
The Administrative Building
Albion Spring
183 Main Rd
Rondebosch 7700
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e-mail: capetown@srk.co.za
website: www.srk.co.za

Tel: +27 (0) 21 659 3060
Fax: +27 (0) 21 685 7105

SRK Project Number 434931

November 2011

Compiled by:

Leon Groenewald
Senior Hydrogeologist

e-mail: lgroenewald@srk.co.za

Reviewed by:

Peter Rosewarne and Des Visser
Partner Principal Hydrogeologist

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Glossary

Abstraction: The act of removing groundwater from an aquifer.

Aquifer: A formation, group of formations, or part of a formation that contains sufficient saturated permeable material to store and transmit water; and to yield economical quantities of water to boreholes or springs. An aquifer is the storage medium from which groundwater is abstracted.

Blow yield: The volume of water per unit of time blown from the borehole during drilling. Blow yield gives an indication of the rate at which groundwater can be abstracted from a borehole.

Collar: Top of borehole casing.

Electrical conductivity (EC): Electrical conductivity is a measure of how well a material accommodates the transport of electric charge. The more salts dissolved in the water, the higher the EC value. It is used to estimate the amount of total dissolved salts, or the total amount of dissolved ions in the water.

Fault: A zone of displacement in rock formations resulting from forces of tension or compression in the earth's crust. Faults can form conduits for groundwater movement and groundwater contamination; as well as impermeable zones where metamorphism of the rocks have taken place.

Formation: A body of rock identified by lithic characteristics and stratigraphic position. Different formations have different geohydrological properties.

Fracture: Any break in a rock including cracks, joints and faults. Fractures can form the main conduits for groundwater flow. They can also form pathways for the movement of contamination.

Geophysics: The study of the earth's physical characteristics by the use of instruments to determine physical properties such as relative density, electrical conductivity, magnetic susceptibility, seismic wave propagation, electrical and gravitational fields, etc.

Groundwater: Water found in the subsurface in the saturated zone below the water table. Groundwater is an integral part of the hydrological system.

Hydrogeology: In South Africa the term geohydrology and hydrogeology are used interchangeably. In theory hydrogeology is the study of geology from the perspective of its role and influence in hydrology, while geohydrology is the study of hydrology from the perspective of the influence on geology.

Kersantite: A type of intrusive igneous rock and consisting mostly of biotite and plagioclase feldspar.

pH: pH is the negative logarithm of the hydrogen ion concentration in solution. pH is the measure of the acidity or alkalinity of a solution.

Quaternary Catchment: A fourth order catchment in a hierarchal classification system in which a primary catchment is the major unit. Catchments are a basic hydrological unit. The Quaternary Catchments are the basic unit for water resource management in South Africa.

Recharge area: An area over which recharge occurs. Recharge is crucial for the ongoing replenishment of aquifers and their sustainable use, and recharge areas thus require protection.

Recharge: The addition of water to the saturated zone, either by the downward percolation of precipitation or surface water and/or the lateral migration of groundwater from adjacent aquifers. Recharge is crucial for the ongoing replenishment of aquifers.

1 Introduction

1.1 Appointment

SRK Consulting Engineers and Scientists (SRK) submitted a proposal to BVI Consulting Engineers dated 16 May 2011 for conducting a hydrogeological study for new landfill sites and waste water oxidation ponds at five towns in the Richtersveld Municipality. SRK was subsequently appointed to carry out this work on 24 May 2011.

The five towns (**Figure 1**) referred to are:

- Port Nolloth;
- Lekkering;
- Eksteenfontein;
- Kuboes; and
- Sandrift.

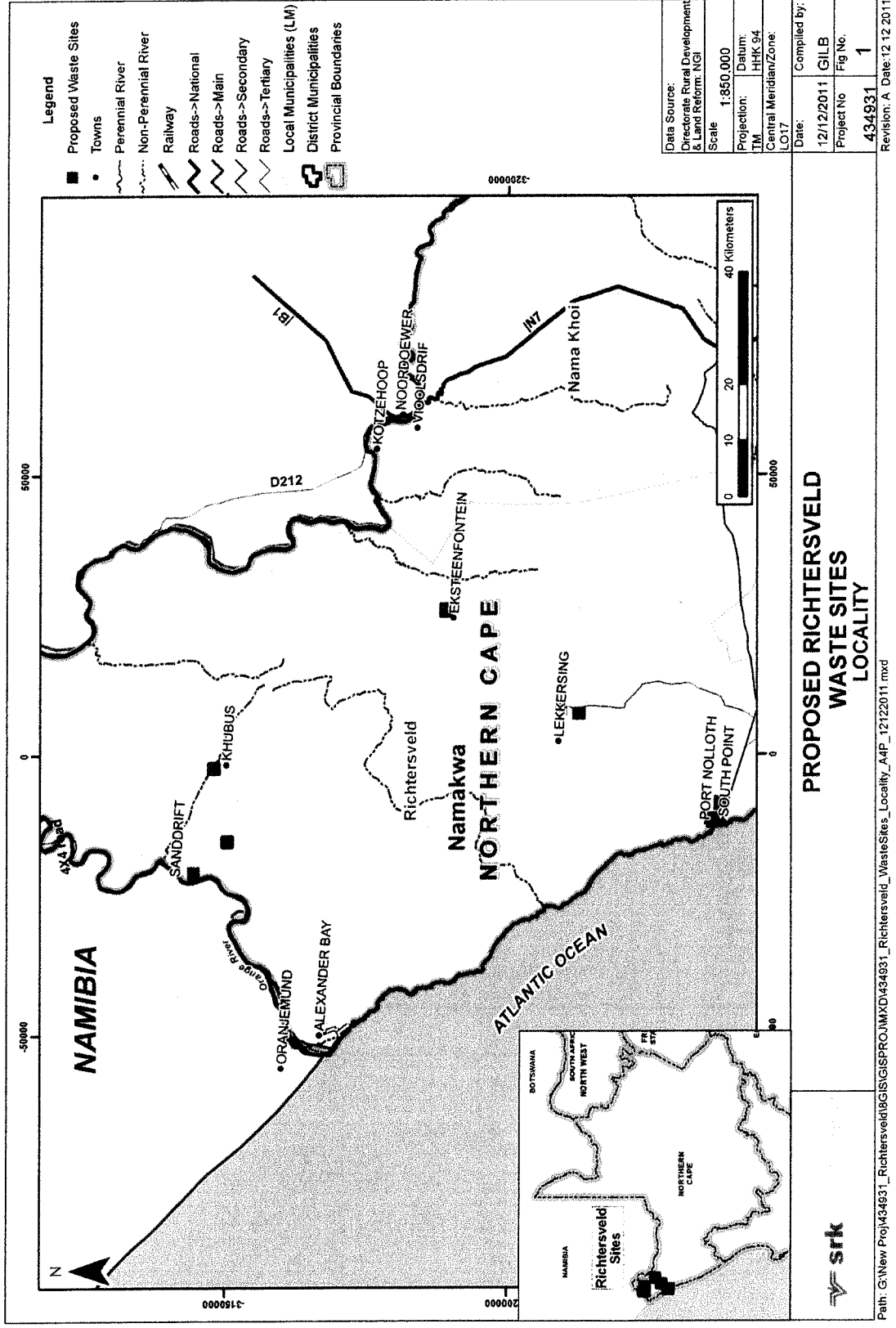
At each town the project consisted of two landfill site and two oxidation pond site alternatives. This report details the results of the investigation on sites proposed for Waste Sites for Lekkering.

1.2 Terms of Reference

No formal Terms of Reference were provided, however, SRK proposed the following tasks to be completed:

1. Collect all hydrogeological data and information for the area – Department of Water Affairs (DWA) National Groundwater Archive (NGA), DWAF 1: 500 000 hydrogeological map, published geological maps, completed Environmental Impact Assessment (EIA) reports for surrounding developments (if any), Consultancy Reports, etc;
2. Collect all geotechnical information (depth of sand, clay, hard rock, etc.) if available, to enable a more comprehensive assessment of the local aquifer systems (primary sandy aquifer, secondary hard rock aquifer). Information includes thicknesses of different horizons, any *in situ* permeability tests, etc;
3. Collect and collate all GIS / CAD files and prepare maps for inclusion in the Draft hydrogeological report. These maps include the general geology, groundwater flow directions, groundwater quality, groundwater use, recharge, hydrogeological cross-sections and a conceptual aquifer model;
4. Identify and map all geological lineaments and potential groundwater-bearing formations and structures on aerial photographs and existing geological maps;
5. Conduct a site reconnaissance/hydrocensus of groundwater users on adjacent properties and developments to obtain / assess the local hydrogeological conditions; and
6. Prepare a hydrogeological specialist report which documents the following:
 - Findings of initial study;
 - Recommendations regarding further work (if any).

Figure 1: Locality map



PROPOSED RICHTERSVELD WASTE SITES LOCALITY

Path: G:\New Proj\434931_Richtersveld\GIS\GISPROJ\MXD\434931_Richtersveld_WasteSites_Locality_A4P_12122011.mxd

2 Climatic Balance

Toens and Partners conducted a hydrogeological study for new waste sites in the study area in 1996 (Toens, 1996). To calculate the Climatic Water Balance (CWB), Toens used data, i.e. rainfall and A-pan evaporation data, from a weather station in Alexander Bay. The CWB is determined by using the following formula (DWAF, 1996):

$$B = R - E$$

Where B = climatic water balance in mm of water

R = rainfall in mm

E = evaporation from soil surface (0,7 x A - Pan evaporation)

B is calculated for the wet season of the wettest year on record. B is then recalculated for successively drier years, because the wettest year on record may only be so on account of unseasonal rainfall.

The calculation is repeated to establish:

- If B is positive for less than one year. If this is the case no significant leachate generation is expected. The site is classified as B- and leachate management is usually unnecessary;
- If B is positive for more than one year in five. In this case, significant leachate can be expected. The site is classified as B+ and leachate management is a minimum requirement.

Table 1: CWB obtained for the study area

Wettest years on record	CWB
Wettest year 1900	$B = 135,2 - (0,7 \times 886) = - 485,0$
2nd Wettest year 1982	$B = 119,8 - (0,7 \times 921) = - 524,9$
3rd Wettest year 1963	$B = 116,2 - (0,7 \times 957) = - 553,7$
4th Wettest year 1985	$B = 111,8 - (0,7 \times 935) = - 542,7$
5th Wettest year 1976	$B = 100,9 - (0,7 \times 1004) = - 601,9$

The CWB for each catchment was calculated using average rainfall and S-pan evaporation data from the WR2005 datasets (Middleton *et al*, 2005). The results are discussed in the relevant sections on each town.

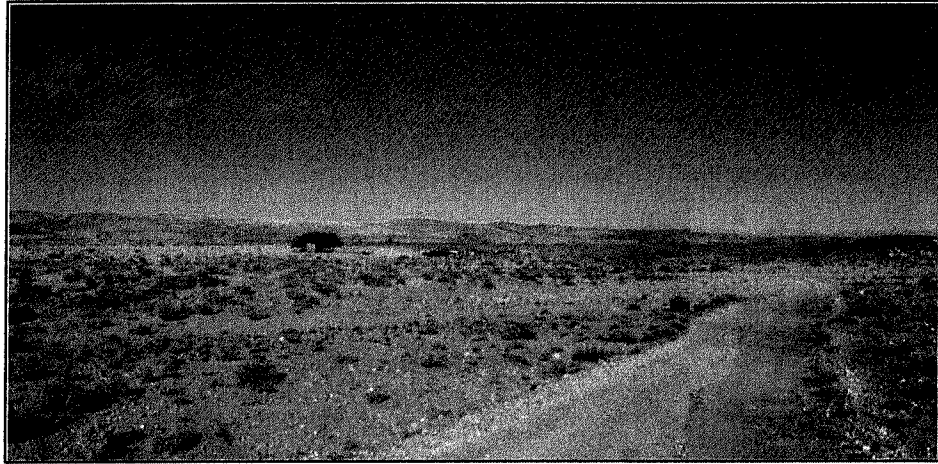
Figure 2: Lekkersing site localities

3.1.1 Topography

Waste Site Alternative 1

The site is situated in a dry drainage channel (**Figure 3**) with surface drainage across the site in a westerly direction and has a gentle 1:50 slope

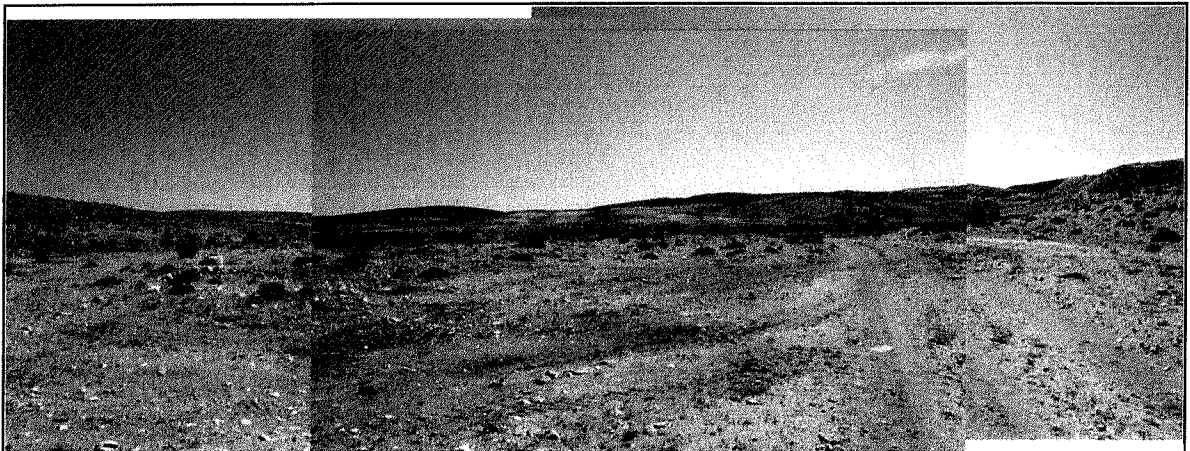
Figure 3: Photo of Waste Site Alternative 1 – Lekkersing (view towards the southwest)



Waste Site Alternative 2

This site is situated next to a dry drainage channel draining to the southwest (**Figure 4**). The site is bounded by the dry channel to the north and a heap of old gravel diggings to the east and south. The slope across the site is from the northeast to the southwest and has a difference in elevation of 313 to 307 mamsl and has a 1:35 slope.

Figure 4: Photo of Waste Site Alternative 2 - Lekkersing (view towards the northeast)



3.1.2 Geology

The geology underlying the Lekkersing sites consist mainly of quartzite, lava and tuff of the Vredefontein Formation with dolerite intrusions. A summary of the geology is presented in **Table 2** and in **Figure 5** with further discussions under the relevant site.

Table 2: Summary of the geology around Lekkersing

Super Group	Group	Subgroup	Formation/System	Description
			Quaternary	Red aeolian sand, pediment deposits
Gariep Supergroup	Port Nolloth	Stinkfontein	Vredefontein	Quartzite, lava and tuff
			Lekkersing	Orthoquartzite and flagstone
Gannakouriep Suite				Dolerite

Waste Site Alternative 1

The site is mainly underlain by Quaternary-age sediments and flagstone of the Lekkersing Formation. An outcrop of the flagstone was found some 160 m to the northeast of the site (**Figure 6**). The flagstones are dipping steeply to the west at an angle of $\sim 40^\circ$. The flagstone outcrop is close to the site and it is expected that the sand thickness at the site is thin.

An outcrop of a dolerite dyke was also located ~ 150 m to the north of the site (**Figure 7**). No outcrops were, however, found at the site and it is unknown if the dyke extends under the site. The dyke could be a conduit for contaminants to flow along. If this site is selected a geophysical survey is needed to establish if the dyke extends underneath the site.

Figure 6: Orthoquartzites of the Lekkersing Formation

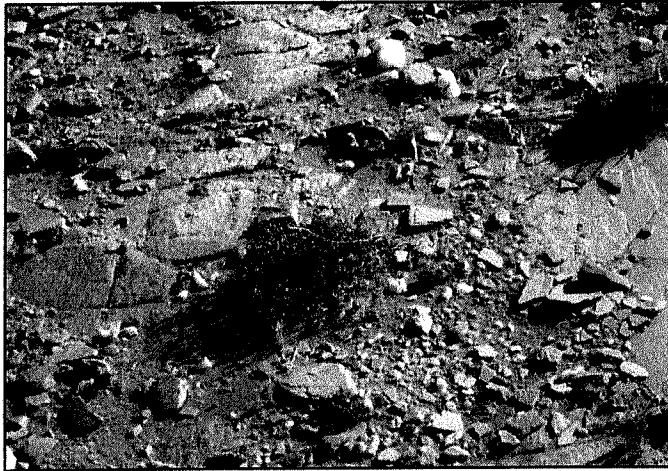
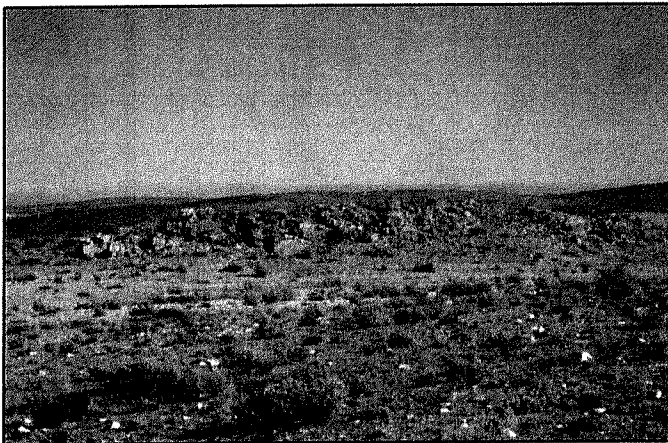


Figure 7: Dolerite Dyke at Waste Site Alternative 1



Waste Site Alternative 2

This site is underlain by quartzites of the Vredefontein Formation. The site is close to a dry drainage channel and Quaternary-age sediments are found at the site. The channel is about 2 m deep and therefore it is expected that the bedrock is >2 mbgl.

3.1.3 Groundwater Use

The town is supplied with water from boreholes located to the northeast of the town, which are all upstream from the proposed waste sites. The closets site (Waste Alternative 2) is approximately 1.3 km from the boreholes. Due to the distance and the proposed sites being downstream of the boreholes, no impact from pollution from the sites on the groundwater resources supplying the town is foreseen. No groundwater use or boreholes close to the sites (1 km radius) was found.

3.1.4 Depth to Groundwater

Groundwater levels measured at the production boreholes were between 2.68 and 36.12 mbgl. The water levels were rest water levels and were measured before the boreholes were pump tested. The deeper water levels are from boreholes drilled into the Lekkersing Formation. The shallow water levels are from a borehole that penetrated a dolerite dyke and the borehole is also close to a spring. The dyke probably causes groundwater to dam up on the upstream side causing shallower water table. The Borehole RV93/204 is the closet borehole to the sites and the water level measured at the borehole was 17.08 mbgl and it is expected that similar groundwater levels will be found at these sites (Waste Site Alternative 2). Shallow groundwater levels are expected at Waste Site Alternative 1 as a dolerite dyke might extend underneath the site.

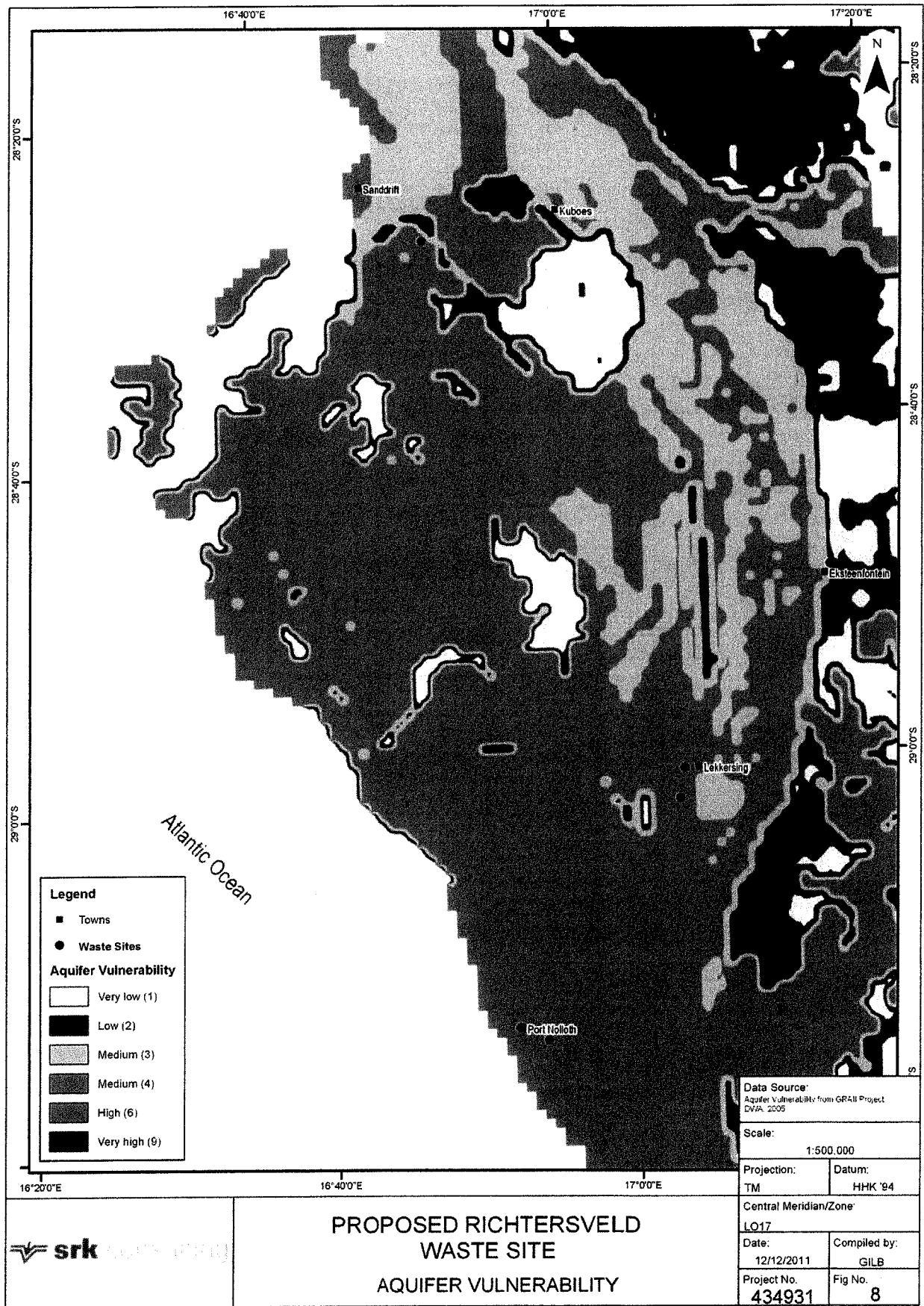
3.1.5 Aquifer Vulnerability

The aquifer vulnerability is determined by evaluating seven parameters (GRA 2), namely:

- Depth to groundwater
- Recharge
- Aquifer media
- Soil media
- Topography
- Impact on vadose zone
- Hydraulic conductivity

Aquifer vulnerability is defined as the likelihood for contamination to reach a specified position in the groundwater system after being introduced at some point above the uppermost aquifer. According to the findings of the GRA-2 Project (DWAF, 2005) the proposed site falls within a zone classified as being of medium vulnerability (**Figure 8**).

Figure 8: Aquifer vulnerability map



3.1.6 Groundwater flow directions

Groundwater flow direction normally mimics the surface topography in unconfined aquifers and hence surface water drainage direction. Based on this assumption the inferred groundwater flow directions at the proposed sites are as follows:

Waste Site Alternative 1

The surface water drainage across the site is in a westerly direction, hence the inferred groundwater flow is also in a westerly direction.

Waste Site Alternative 2

The surface water drainage across the site is in a southwesterly direction, hence the inferred groundwater flow is also in a southwesterly direction.

- Areas characterised by shallow bedrock with little soil cover. These are frequently also associated with steep slopes, which may be unsuitable.
- Areas in close proximity to land-uses which are incompatible with landfilling.
- Areas immediately upwind of a residential area in the prevailing wind direction(s).
- Areas which, because of title deeds and other constraints, can never be rezoned to permit a waste disposal facility.
- Areas over which servitudes are held that would prevent the establishment of a waste disposal facility; e.g. Rand Water, ESKOM or Road Department servitudes.
- Any area characterised by any factor that would prohibit the development of a landfill except at prohibitive cost.
- Areas in conflict with the Local Development Objectives (LDO) process and the Regional Waste Strategy.

5 Site Discussions and Ratings

The methods used to assess the impacts on the groundwater are described in the sections below (Pretorius, 2011).

For each impact, the EXTENT (spatial scale), MAGNITUDE and DURATION (time scale) are described which are then used to ascertain the SIGNIFICANCE of the impact; both with and without the proposed/recommended mitigation measures in place. **Table 3**, below, describes proposed criteria to be used to evaluate these variables, and defines the proposed rating categories.

Table 4: Definition of proposed significance ratings

Significance Ratings	Criteria
High	<p>High magnitude with a regional extent and long term duration; OR</p> <p>High magnitude with either a regional extent and medium term duration or a local extent and long term duration; OR</p> <p>Medium magnitude with a regional extent and long-term duration.</p>
Medium	<p>High magnitude with a local extent and medium term duration; OR</p> <p>High magnitude with a regional extent and short term duration or a site specific extent and long term duration; OR</p> <p>High magnitude with either a local extent and short term duration or a site specific extent and medium term duration; OR</p> <p>Medium magnitude with any combination of extent and duration except site specific and short term or regional and long term; OR</p> <p>Low magnitude with a regional extent and long term duration.</p>
Low	<p>High magnitude with a site specific extent and short term duration; OR</p> <p>Medium magnitude with a site specific extent and short term duration; OR</p> <p>Low magnitude with any combination of extent and duration except site specific and short term; OR</p> <p>Very low magnitude with a regional extent and long term duration.</p>
Very low	<p>Low magnitude with a site specific extent and short term duration; OR</p> <p>Very low magnitude with any combination of extent and duration except regional and long term.</p>

Once the significance of an impact has been determined, the PROBABILITY of this impact occurring as well as the CONFIDENCE in the assessment of the impact will be determined using the proposed rating systems outlined in **Table 5** and **Table 6**, below, respectively. It is important to note that the significance of an impact should always be considered in concert with the probability of that impact occurring.

5.1 Lekkersing

5.1.1 Waste Site Alternatives

Presented in **Table 7** and **Table 8** are the site assessments for each of the alternatives.

Impacts expected during construction relate to potential hydrocarbon (oil, diesel, grease, petrol) spills from machinery and storage areas and on-site sanitation for the construction workers. The impacts of any such contamination will be low and site specific given the likely small quantities involved. This would only affect shallow groundwater, which is possibly present at the Site Alternative 1. The significance of the potential construction related contamination of groundwater at both sites is **Low**. The significance is **Very Low** if the following mitigation measures are followed:

- Maintain good housekeeping measures for on-site storage of hydrocarbon based products and clean up any spillages and waste on a daily basis. This material should be stored in appropriate containers, in a bunded area, for removal and disposal; and
- Supply on-site sanitation during construction;

The main possible impact of the site during operation would be possible seepage of leachate into the subsurface environment from the land filled area. However, the area has been rated as B- with respect to CWB. This broadly means that average evaporation exceeds average rainfall, i.e. it is unlikely that leachate will be produced. The main contaminants that could be introduced would be nitrate, chloride, potassium, ammonia, phosphate and heavy metals. An increase in Total Dissolved Solids, alkalinity and Chemical Oxygen Demand could also be expected.

Site 1 is situated in an dry drainage channel and on sediments and it is expected that shallower groundwater conditions exist here. The possibility of a dyke being located beneath Site 1 could also create a conduit for any leachate generated which could move off-site and therefore an extent rating of **Local** is given.

Site 2 is situated next to a drainage channel and it is expected that groundwater will be deeper than at Site 1 giving more time for any leachate to attenuate before reaching the water table. An extent rating of **Site Specific** is given for Site 2. Site 2 is also situated at the current landfill site. The daily site operation is questionable and would probably need to be formalized. It would therefore be preferred if the new site be built at the site so that daily operation of waste disposal be regulated.

The magnitude of the impact of leachate in groundwater is **Very Low** and the significance is **Very Low** for both sites as the CWB is negative. No groundwater use was identified downstream of the sites.

As mentioned above the CWB for both sites is B- and it is not expected that leachate would be generated if only dry waste is disposed of. The ratings for both sites are similar, but Site Alternative 2 is preferred due to:

- Possible deeper water table;
- Site is used for "dumping" and this could be regulated with a formal landfill site; and
- Site 2 is situated next to a drainage channel whereas Site 1 is in a drainage channel.

Due to the low percentage of recharge and relatively small area of the landfill it is expected that a reduction in recharge is minimal and a significance rating of **Very Low** is given.

7 References

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