
DRAFT BASIC ASSESSMENT REPORT

CEMETERY ON A PORTION OF PLOT 1409, ALHEIT, KAKAMAS

Applicant: Kai !Garib Municipality
MDA Ref No: 40613 Alheit
NC DENC Ref No: NC/BA/SIY/KAI/KAK8/2011
Date: July 2014



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BASIC ASSESSMENT REPORT

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(For official use only)

File Reference Number:

Application Number:

Date Received:

Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2010.

Kindly note that:

1. This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2010 and is meant to streamline applications. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for.
2. The report must be typed within the spaces provided in the form. The size of the spaces provided are not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
3. Where applicable **tick** the boxes that are applicable or **black out** the boxes that are not applicable in the report.
4. An incomplete report may be returned to the applicant for revision.
5. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
6. This report must be handed in at offices of the relevant competent authority as determined by each authority.
7. No faxed or e-mailed reports will be accepted.
8. The report must be compiled by an independent environmental assessment practitioner.
9. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
9. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.

SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section?

	NO
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If YES, please complete form XX for each specialist thus appointed:
Any specialist reports must be contained in Appendix D.

1. ACTIVITY DESCRIPTION

Describe the activity, which is being applied for, in detail:

The proposed expansion of an existing cemetery and associated infrastructure, including the provision of running water and sanitation facilities on site.
The proposed cemetery expansion will take place on Plot 1409, Kakamas, South Settlement, Northern Cape Province.

Listed Activity:

Activity 46 of Regulation 544, 18 June 2010: The expansion of cemeteries by an additional 2 500m² or more.

Associated activities to be undertaken:

- The site will be cleared of vegetation and laid out so as to provide burial sites for the local community.
- Pre-excavation of graves and re-filling of graves (hard material will be removed at each of the new graves and filled with the removed material until the specific grave is to be required, during the operational phase).
- This will be done as the construction of graves (by hand) during the operational phase is not recommended due to the type of soil (hard) encountered on site.
- Water supply to the site by means of a 75 mm diameter line and an approximate length of 180 m
- Sanitation can be provided by means of a conservancy tank
- A store room of approximately 16 m² for storing of hand tools, etc.
- An ablution facility (male / female) of approximately 16 m² in total
- A fence on the perimeter of the site as per requirements of Kai !Garib municipality
- Construction of gravel roads.

2. FEASIBLE AND REASONABLE ALTERNATIVES

“**alternatives**”, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. The determination of whether site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

NOTE:

Four main options were investigated:

Alternative 1_{Preferred}

Expansion of existing cemetery.

Removal of vegetation and leveling of area.

Construction of graves and re-filling of empty graves.

Alternative 2^{Design}

Include a columbarium niche in the form of a building or a wall as this will minimize the area required for the storage of human remains.

However, people on this region do not make use of cremation and therefore this option cannot be seen as a feasible and / or reasonable alternative.

This option will thus not be discussed throughout the current document.

Alternative 3^{Technology}

The construction of graves by hand during the operational phase.

However, this option is not feasible as hard material is encountered on site, and the community members will not be able to dig the graves to the acceptable depths.

This option will thus not be discussed throughout the current document.

The no-go option:

Utilising the existing cemetery.

However, the settlement has only one graveyard and it is already more than 90% full.

The existing facility is deemed inadequate for the need of the community.

Therefore, this option is not seen as a reasonable and / or feasible alternative.

The no-go option will be discussed in this report.

Paragraphs 3 – 13 below should be completed for each alternative.

3. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

List alternative sites if applicable.

Alternative:

Alternative 1^{Preferred}

Alternative S2 (if any)

Alternative S3 (if any)

In the case of linear activities:

Alternative:

Alternative S1 (preferred or only route alternative)

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Alternative S2 (if any)

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Alternative S3 (if any)

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Latitude (S):

Longitude (E):

28°	45.749'	20°	32.189'
°	'	°	'
°	'	°	'

Latitude (S):

Longitude (E):

°	'	°	'
°	'	°	'
°	'	°	'

°	'	°	'
°	'	°	'
°	'	°	'

°	'	°	'
°	'	°	'
°	'	°	'

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

4. PHYSICAL SIZE OF THE ACTIVITY

Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

Alternative:

Alternative 1^{Preferred}

Alternative A2 (if any)

Alternative A3 (if any)

or, for linear activities:

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Size of the activity:

10 222 m ²
m ²
m ²

Length of the activity:

m
m

Alternative A3 (if any)

m

Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

Alternative:

Size of the site/servitude:

- Alternative 1^{Preferred}
- Alternative A2 (if any)
- Alternative A3 (if any)

m ²
m ²
m ²

5. SITE ACCESS

Does ready access to the site exist?

	NO
200 m	

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

A 200m X 5m gravel road will be constructed to gain access to the site, from Wylen Street

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

6. SITE OR ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document.

The site or route plans must indicate the following:

- 6.1 the scale of the plan which must be at least a scale of 1:500;
- 6.2 the property boundaries and numbers of all the properties within 50 metres of the site;
- 6.3 the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 6.4 the exact position of each element of the application as well as any other structures on the site;
- 6.5 the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 6.6 all trees and shrubs taller than 1.8 metres;
- 6.7 walls and fencing including details of the height and construction material;
- 6.8 servitudes indicating the purpose of the servitude;
- 6.9 sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
 - rivers;
 - the 1:100 year flood line (where available or where it is required by DWA);
 - ridges;
 - cultural and historical features;
 - areas with indigenous vegetation (even if it is degraded or invested with alien species);
- 6.9 for gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- 6.10 the positions from where photographs of the site were taken.

7. SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this form. It must be supplemented with additional photographs of relevant features on the site, if applicable.

8. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

9. ACTIVITY MOTIVATION

9(a) Socio-economic value of the activity

What is the expected capital value of the activity on completion?

What is the expected yearly income that will be generated by or as a result of the activity?

Will the activity contribute to service infrastructure?

Is the activity a public amenity?

How many new employment opportunities will be created in the development phase of the activity?

What is the expected value of the employment opportunities during the development phase?

What percentage of this will accrue to previously disadvantaged individuals?

R120 000	
R20 000	
YES	
YES	
3	
R65 000	
100%	

How many permanent new employment opportunities will be created during the operational phase of the activity?	3
What is the expected current value of the employment opportunities during the first 10 years?	R40 000
What percentage of this will accrue to previously disadvantaged individuals?	100

9(b) Need and desirability of the activity

Motivate and explain the need and desirability of the activity (including demand for the activity):

The settlement currently has only one cemetery that is already more than 90% full, therefore reaching its capacity.
 The existing facility is inadequate for the need of the community, especially when the population growth in the area is taken into account.
 With the above in mind, the proposed expansion of the cemetery will be beneficial for members from the Alheit community.

Indicate any benefits that the activity will have for society in general:

The proposed development of a cemetery will provide new burial sites for the society in general.

Indicate any benefits that the activity will have for the local communities where the activity will be located:

- Employment opportunities during the construction phase.
- Employment opportunities during the operational phase.
- The availability of adequate burial sites for members from the local community.

DESIRABILITY:			
1.	Does the proposed land use / development fit the surrounding area?	YES	
2.	Does the proposed land use / development conform to the relevant structure plans, SDF and planning visions for the area?	YES	
3.	Will the benefits of the proposed land use / development outweigh the negative impacts of it?	YES	
4.	If the answer to any of the questions 1-3 was NO, please provide further motivation / explanation: N/A		
5.	Will the proposed land use / development impact on the sense of place?		NO
6.	Will the proposed land use / development set a precedent?		NO
7.	Will any person's rights be affected by the proposed land use / development?		NO
8.	Will the proposed land use / development compromise the "urban edge"?		NO
9.	If the answer to any of the question 5-8 was YES, please provide further motivation / explanation. N/A		

BENEFITS:			
1.	Will the land use / development have any benefits for society in general?	YES	
2.	Explain: The local community of Alheit township will have a burial facility which will be highly accessible.		
3.	Will the land use / development have any benefits for the local communities where it will be located?	YES	
4.	Explain: The facility will enable the community to have access to burial sites within walking distance from their residential area. This issue is important seeing that 85% of the residents in the area have no mobile transport.		

10. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline:	Administering authority:	Date:
National Environmental Management Act: Waste Act	National Department of Water Affairs	1998

National Environmental Impact Assessment Regulations	Department of Environmental Affairs	2010
Guideline for Public Participation	Department of Environmental Affairs	2010
Guideline on Alternatives	Department of Environmental Affairs	2010
National Water Act, 1998, (Act 36 of 1998)	DWA	1998
National Heritage Resources Act (Act 25 of 1999)	SAHRA	1999

11. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

11(a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?

	NO
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If yes, what estimated quantity will be produced per month?

How will the construction solid waste be disposed of (describe)?

It is not foreseen that any waste will be disposed of during the construction phase, due to the following:

- The construction solid waste refers to soil, weathered granite and intermediate material or hard rock.
- Some of these materials will be re-used to construct a small earth embankment or berm, of approximately 300mm in height, on the western side of the study area.
- Soil collected during the leveling process will be used to backfill lower laying areas.
- Soil collected during the digging of graves will be used to backfill the graves.

However, should any solid waste be generated by the proposed project, the waste will be classified and disposed of at the nearest authorized landfill site.

Where will the construction solid waste be disposed of (describe)?

If any, it will be disposed of at the landfill site at Kakamas.

Will the activity produce solid waste during its operational phase?

	NO
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If yes, what estimated quantity will be produced per month?

How will the solid waste be disposed of (describe)?

N/A

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

N/A

If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

	NO
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If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility?

	NO
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If yes, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

11(b) Liquid effluent

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

	NO
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If yes, what estimated quantity will be produced per month?

Will the activity produce any effluent that will be treated and/or disposed of on site?

m ³	
YES	

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

NOTE:

Sewage water will be managed by means of a septic tank, on site. However, this is not a listed activity, and therefore the application should not change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility?

	NO
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If yes, provide the particulars of the facility:

Facility name:

Contact person:

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 Postal address:

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 Postal code:

--

 Telephone:

--

 Cell:

--

 E-mail:

--

 Fax:

--

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

--

11(c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

YES	
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 If yes, is it controlled by any legislation of any sphere of government?

	NO
--	----

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.
 If no, describe the emissions in terms of type and concentration:

The emissions associated with the proposed activity can be described as general vehicle emissions. In addition, dust can also be seen as a potential issue during the development phase. The formation of dust will be controlled by dust suppression methods. In addition, construction activities will be limited to day time hours.
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11(d) Generation of noise

Will the activity generate noise?

YES	
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 If yes, is it controlled by any legislation of any sphere of government?

	NO
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If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA. NA
 If no, describe the noise in terms of type and level:

Noise associated with the development activities will be from general vehicular activities as well as building activities. Heavy vehicles will be equipped with silencers. In addition, construction activities will be limited to day time hours.
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12. WATER USE

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es)

<input checked="" type="checkbox"/> municipal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

N/A

 Does the activity require a water use permit from the Department of Water Affairs?

NO

If yes, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this application if it has been submitted.

13. ENERGY EFFICIENCY

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

N/A

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

N/A

SECTION B : SITE/AREA/PROPERTY DESCRIPTION

Important notes:

1. For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section C and indicate the area, which is covered by each copy No. on the Site Plan.

Section C Copy No. (e.g. A):

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2. Paragraphs 1 - 6 below must be completed for each alternative.

3. Has a specialist been consulted to assist with the completion of this section?

NO

If YES, please complete form XX for each specialist thus appointed :N A
 All specialist reports must be contained in Appendix D. N A

1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative 1 Preferred:

Flat	1:50	–				
	1:20					

Alternative S2 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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Alternative S3 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site:

- 2.1 Ridgeline
- 2.2 Plateau
- 2.3 Side slope of hill/mountain
- 2.4 Closed valley
- 2.5 Open valley
- 2.6 Plain
- 2.7 Undulating plain / low hills
- 2.8 Dune
- 2.9 Seafront

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on any of the following (tick the appropriate boxes)?

	Alternative 1 Preferred:	Alternative S2 (if any):	Alternative S3 (if any):
Shallow water table (less than 1.5m deep)	NO	YES NO	YES NO
Dolomite, sinkhole or doline areas	NO	YES NO	YES NO
Seasonally wet soils (often close to water bodies)	NO	YES NO	YES NO
Unstable rocky slopes or steep slopes with loose soil	NO	YES NO	YES NO
Dispersive soils (soils that dissolve in water)	NO	YES NO	YES NO
Soils with high clay content (clay fraction more than 40%)	NO	YES NO	YES NO
Any other unstable soil or geological feature	NO	YES NO	YES NO
An area sensitive to erosion	YES	YES NO	YES NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. (Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted).

4. GROUNDCOVER

Indicate the types of groundcover present on the site:

- 4.1 Natural veld – good condition ^E
- 4.2 Natural veld – scattered aliens ^E
- 4.3 Natural veld with heavy alien infestation ^E
- 4.4 Veld dominated by alien species ^E
- 4.5 Gardens
- 4.6 Sport field
- 4.7 Cultivated land
- 4.8 Paved surface

4.9 Building or other structure

4.10 Bare soil (scattered with vegetation)

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld - good condition ^E	Natural veld with scattered aliens ^E	Natural veld with heavy alien infestation ^E	Veld dominated by alien species ^E	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil (scattered with vegetation)

If any of the boxes marked with an "E" is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn't have the necessary expertise.

NOTE:

The vegetation type in the area consists of Bushmanland Arid Grassland. The vegetation type is characterized by the dominance of white grasses (*Stipagrostis* spp.) and may contain a large degree of annual herbs after periods of high rainfall.

Large areas of the site have been cleared and the site is severely degraded.

Vegetation on the site consists of dwarf shrubs and succulents. Due to the arid climate and the time of season that the ecological assessment were undertaken, several annual grasses and herbs may not been obserbed. Dwarf shrubs and succulents that were found on site include *Blepharis mitrata*, *Monechma genistifolium* subsp. *genistifolium*, *Salsola tuberculata*, *Zygophyllum simplex* and *Psilocalon junceum*.

Two protected succulent species were also noted (*Aloe claviflora* and *Avonia papyraceae*). Both species have a wide distribution area and is not regarded as rare. These species is not of a concern to the development; however, a permit must be acquired if any of these species are to be removed from the site.

Two ephemeral drainage lines cross the site and are in a severely degraded condition, due to the activities undertaken by the adjacent settlement. These drainage lines should be excluded from the proposed cemetery and a buffer zone of 10 m should be afforded to the drainage lines.

The drainage lines are lined with small trees and shrubs (*Parkinsonia africana*, *Phaeoptilum spinosum* and *Acacia melifera* subsp. *detinens*). *Tapinanthus oleifolius* is a common parasite plant on these trees.

No rare or endangered mammals were observed on site. The likelihood that one or several of any endangered mammal species may occur in this area is highly unlikely.

5. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that does currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

5.1 Natural area	None The subject study site is located adjacent to the existing cemetery and forms part of the township of Alheit. The subject site forms part of the extension of this township.
5.2 Low density residential	Yes The low density residential areas will not have an impact on the project / the project will not have an impact on the low density residential areas.
5.3 Medium density residential	None
5.4 High density residential	None
5.5 Informal residential	About 100 households live informally in backyard structures

	made of zinc and other material accessible to the community. The proposed extension of the cemetery will be beneficial for members from the local community.
5.6 Retail commercial & warehousing	Retail units comprises mainly of tuck shops which is accommodated in the housing structures or outbuildings and larger warehouses within 500m from the proposed site, for agricultural purposes. There are a few taverns within the township.
5.7 Light industrial	None
5.8 Medium industrial ^{AN}	None
5.9 Heavy industrial ^{AN}	None
5.10 Power station	None
5.11 Office/consulting room	Offices at the above mentioned warehouses, etc. No influence on the project / project will have no influence on offices.
5.12 Military or police base/station/compound	None
5.13 Spoil heap or slimes dam ^A	None
5.14 Quarry, sand or borrow pit	None
5.15 Dam or reservoir	A reservoir is found within the township which provide potable water to the community
5.16 Hospital/medical centre	A clinic has been provided in the township and provides medical services to the community.
5.17 School	The township has one primary school. As this school is on the opposite side of the study site, no negative impacts are foreseen.
5.18 Tertiary education facility	None
5.19 Church	Churches exist within the settlement. No impacts foreseen.
5.20 Old age home	None
5.21 Sewage treatment plant ^A	None
5.22 Train station or shunting yard ^N	None
5.23 Railway line ^N	None
5.24 Major road (4 lanes or more) ^N	None
5.25 Airport ^N	None
5.26 Harbour	None
5.27 Sport facilities	None
5.28 Golf course	None
5.29 Polo fields	None
5.30 Filling station ^H	None
5.31 Landfill or waste treatment site	None
5.32 Plantation	YES Cultivated land (vineyards, located within 500m North, East and South of the proposed site. No impacts foreseen.
5.33 Agriculture	Cultivated land (vineyards) and associated infrastructure are located within 500m North, East and South of the proposed site. No impacts foreseen.
5.34 River, stream or wetland	Two ephemeral streams are located within the proposed development area. These areas should be excluded from the proposed developments.
5.35 Nature conservation area	None
5.36 Mountain, koppie or ridge	None
5.37 Museum	None
5.38 Historical building	None
5.39 Protected Area	None
5.40 Graveyard	The existing graveyard is located adjacent to the study site.
5.41 Archaeological site	None
5.42 Other land uses	None

If any of the boxes marked with an ^{AN} are ticked, how this impact will / be impacted upon by the proposed activity.

If YES, specify and explain:	N/A
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If any of the boxes marked with an "A" are ticked, how will this impact / be impacted upon by the proposed activity.

If YES, specify and explain:	N/A
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If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity.

If YES, specify and explain:	N/A
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6. CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site?

NO
NO

If YES, explain:

N/A

If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist:

The present site is quite bare with rocky outcrops on very shallow soil. There is a dense scatter of quartz crystals on the surface. No archaeological or historical material was found at the proposed site. The development will not require any archaeological / paleontological mitigation measures and it is recommended that the planning of the site may proceed. However, should any archaeological / paleontological features be found on site, proper mitigation measures should be implemented.

Will any building or structure older than 60 years be affected in any way?

NO

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

NO

If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.

SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT

The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by—

- (a) fixing a notice board (of a size of at least 60cm by 42cm; and must display the required information in lettering and in a format as may be determined by the competent authority) at a place conspicuous to the public at the boundary or on the fence of—
 - (i) the site where the activity to which the application relates is or is to be undertaken; and
 - (ii) any alternative site mentioned in the application;
- (b) giving written notice to—
 - (i) the owner or person in control of that land if the applicant is not the owner or person in control of the land;
 - (ii) the occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
 - (iii) owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
 - (iv) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
 - (v) the municipality which has jurisdiction in the area;
 - (vi) any organ of state having jurisdiction in respect of any aspect of the activity; and
 - (vii) any other party as required by the competent authority;
- (c) placing an advertisement in—
 - (i) one local newspaper; or
 - (ii) any official Gazette that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- (d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or local municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official Gazette referred to in subregulation 54(c)(ii); and
- (e) using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person is desiring of but unable to participate in the process due to—
 - (i) illiteracy;
 - (ii) disability; or
 - (iii) any other disadvantage.

2. CONTENT OF ADVERTISEMENTS AND NOTICES

A notice board, advertisement or notices must:

- (a) indicate the details of the application which is subjected to public participation; and
- (b) state—
 - (i) that the application has been submitted to the competent authority in terms of these Regulations, as the case may be;
 - (ii) whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation;
 - (iii) the nature and location of the activity to which the application relates;
 - (iv) where further information on the application or activity can be obtained; and
 - (iv) the manner in which and the person to whom representations in respect of the application may be made.

3. PLACEMENT OF ADVERTISEMENTS AND NOTICES

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the competent authority in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of the EIA regulations.

Advertisements and notices must make provision for all alternatives.

4. DETERMINATION OF APPROPRIATE MEASURES

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

5. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to this application. The comments and response report must be attached under Appendix E.

6. AUTHORITY PARTICIPATION

Authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least 30 (thirty) calendar days before the submission of the application.

List of authorities informed:

Ward councillor Local Municipal Manager District Municipal Manager Dept. Agric DWA SAHRA

List of authorities from whom comments have been received:

None to date. All comments received during the public participation process, will be attached to the fBAR.

7. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for linear activities, or where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub regulation to the extent and in the manner as may be agreed to by the competent authority.

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application at least 30 (thirty) calendar days before the submission of the application and be provided with the opportunity to comment.
None

Has any comment been received from stakeholders? NO

If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

No comments received to date.
All comments received during the public participation process will be attached to the fBAR.

SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2010, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the main issues raised by interested and affected parties.

No comments were received to date.
All comments received during the public participation process will be attached to the fBAR

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report):

No response as no comments were received to date.
All comments received during the public participation process will be attached to the fBAR

2. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

List the potential direct, indirect and cumulative property/activity/design/technology/operational alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed.

Alternative 1^{Preferred}:

Potential Impacts	Recommended mitigation measures
Planning and design phase	
Direct Impacts • None	<ul style="list-style-type: none"> • No mitigation measures to be implemented as no impacts are associated with the planning phase
Indirect Impacts • None	
Cumulative Impacts • None	
No-go • None	
Development phase (Expansion of cemetery, by the construction of graves and levelling of area)	
Direct Impacts <ul style="list-style-type: none"> • Removal of vegetation and loss thereof • Destruction of habitat for small animals • Possible change in natural storm water drainage pattern • Noise elevation due to the operation of construction vehicles • Nuisance dust generation • Possible damage to paleontological or heritage material 	<ul style="list-style-type: none"> • Surface will be levelled to ensure a free-draining surface to prevent ponding of surface water as well as to limit erosion • Storm water measures such as channels, diversion berms, etc. will be constructed where necessary to limit and / or prevent erosion and separate clean and dirty runoff • Speed limit will be enforced on construction vehicles • Construction activities will be limited to daytime to limit disturbance to neighbouring landowners
Indirect Impacts <ul style="list-style-type: none"> • Potential erosion of the exposed soil • Possible dumping of general waste on 	

<ul style="list-style-type: none"> site Possible spillage of petrochemicals and other hazardous materials Possible spillage of untreated sewage to the surrounding environment Deterioration of the access road as a result of an increase in construction vehicles to the site Increase in traffic in the area 	<ul style="list-style-type: none"> Dust control measures will be implemented if nuisance dust generation proves to be problematic SAHRA will be notified should traces of any paleontological or heritage material be found during construction No waste may be dumped on site or in the veld All spills should be cleaned immediately and handled according to best practices Receptacles should be placed on site for the collection of general waste Waste receptacles should be emptied on a regular basis and the waste disposed of at an authorised landfill site Temporary toilets should be made available for use by the employees and the sewage from these toilets should be managed properly – no disposal on site or the surrounding environment will be allowed Alternatively, a septic tank should be utilised Animals inhabiting the proposed construction area should be re-located if possible No open fires allowed No collection of fire wood, plants or animals will be allowed Access roads should be maintained
<p>Cumulative Impacts</p> <ul style="list-style-type: none"> None 	
<p>No-go</p> <ul style="list-style-type: none"> No direct environmental impacts are foreseen if the no-go alternative is decided upon. However, no approved burial sites will be available to the community, as the existing cemetery is almost full. Possible health and safety issues may arise as bodies will be buried in shallow, hand dig graves in unsuitable areas. Loss of job opportunities associated with the development and construction phase. 	
<p>Operational phase (Established cemetery)</p>	
<p>Direct Impacts</p> <ul style="list-style-type: none"> Possible change in natural storm water drainage pattern Potential pollution to stormwater, surface water and groundwater resources Increase in traffic in the area, at certain intervals The site may in the future become full which will necessitate a search for a new cemetery site. 	<ul style="list-style-type: none"> No waste will be dumped in the area The area should be investigated for erosion on a regular basis Eroded areas should be rehabilitated as soon as possible The access road should be maintained by the local municipality Stormwater mitigation measures constructed during the construction phase, such as the levelling of the area and the construction of channels / diversion berms, etc. should be inspected on a regular basis to determine if it is sufficient to limit any potential pollution to stormwater, surface water or groundwater resources. If not, alternative measures should be implemented as soon as possible.
<p>Indirect Impacts</p> <ul style="list-style-type: none"> Erosion on site Deterioration of the access roads Potential erosion of exposed soil Dumping of general waste 	
<p>Cumulative Impacts</p> <ul style="list-style-type: none"> None 	
<p>No-go</p> <ul style="list-style-type: none"> No direct environmental impacts are foreseen if the no-go alternative is decided upon. However, no approved burial sites will be available. Possible health and safety issues, as bodies will be buried in shallow, hand 	

<ul style="list-style-type: none"> dig graves in unsuitable areas. Loss of employment opportunities associated with the construction phase 	
Decommissioning and closure phase	
Direct Impacts <ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> As the proposed project entails the expansion of an existing cemetery, it is not anticipated that the proposed project will come to an end in the nearby future. However, if decommissioning is decided upon, a rehabilitation plan will be developed and submitted for approval. The end-use of the area will be kept in mind during the compilation of the rehabilitation plan.
Indirect Impacts <ul style="list-style-type: none"> None 	
Cumulative Impacts <ul style="list-style-type: none"> None 	
No-go <ul style="list-style-type: none"> None 	

3. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

Alternative 1 Preferred:

- Preparation and development of the cemetery will result in the destruction of the natural vegetation permanently.
- Pre-excitation of the burial sites will result in a temporary disturbance of the surface, but will be filled up until it is utilized. This action is taken proactively so as to enable the community to excavate burial sites by hand.
- The project will provide for new burial sites for future usage.
- The possible impacts associated with the proposed project can be minimised if the recommended mitigation measures as mentioned in this document and the EMPr, is adhered to.

No-go alternative (compulsory):

- No direct environmental impacts are foreseen if the no-go alternative is decided upon.
- However, no approved burial sites will be available.
- Possible health and safety issues, as bodies will be buried in shallow, hand dig graves in unsuitable areas.

SECTION E. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner)?

YES	
YES	

Is an EMPr attached?

The EMPr must be attached as Appendix F.

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment):

N/A

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

- A small earth embankment or berm of approximately 300mm in height should be constructed on the western side to prevent external storm water flowing over the site.
- Internal storm water drainage can be accommodated by shaping the roads on the site.
- The hard material at a depth of 1,1m below ground level necessitate that the burial sites be pre-excavated and filled up again as part of the development of the cemetery.
- Please refer to the recommended conditions and mitigation measures as listed in the EMPr (Appendix F)

SECTION F: APPENDIXES

Appendix A: Site plan(s) / Locality maps

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports

Appendix D₁: Archaeological and Heritage Assessment

Appendix D₂: Ecological Report

Appendix D₃: Technical Report

Appendix D₄: Geotechnical Report

Appendix E: Comments and responses report

Appendix E₁: List of identified interested and affected parties

Appendix E₂: Example of notification

Appendix E₃: Proof of notification

Appendix E₄: List of registered parties

Appendix E₅: List of comments received

Appendix E₆: Proof of response to comments received

Appendix F: Environmental Management Programme (EMPr)

Appendix G: Other information

Appendix G₁: Declaration of specialists

Appendix G₂: Declaration of EAP

Appendix A

Locality Maps



Legend:

- Existing cemetery
- Proposed expansion of the cemetery, on Erf 1409
- Drainage lines with 10 m buffer zone

Coordinates:

● 28°45'44.96"S, 20°32'11.34"E

2437 m

TYPE OF PLAN:

LOCALITY PLAN



Town & Regional Planners,
Environmental &
Development Consultants

PROJECT:

PROPOSED EXTENSION OF THE ALHEIT CEMETERY, ON ERF 1409, ALHEIT, NORTHERN CAPE

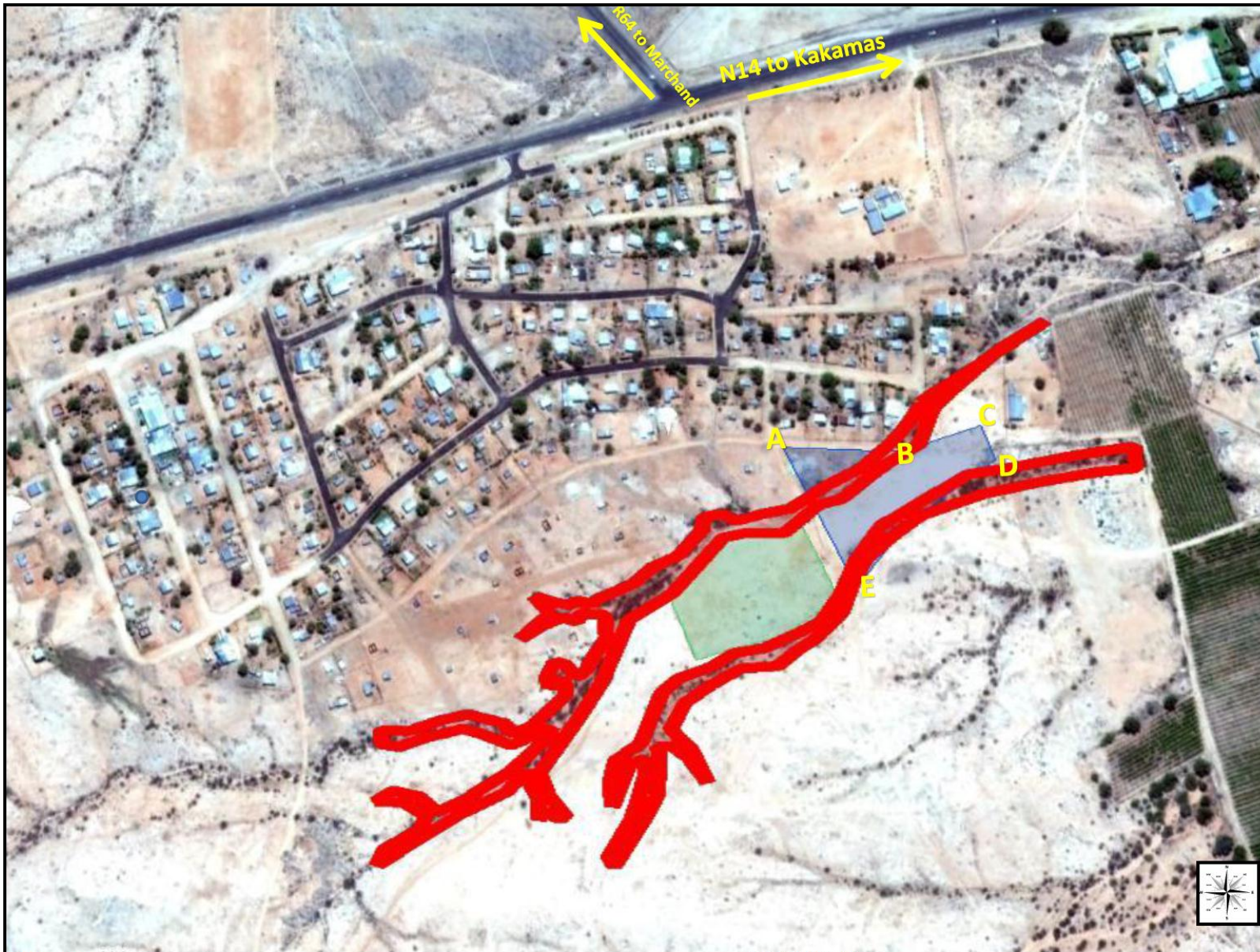
PROJECT BY:

KAI !GARIB MUNICIPALITY

SCALE:



DRAWN BY:
HG



Legend:

- Existing cemetery
- Proposed expansion of the cemetery, on Erf 1409
- Drainage lines with 10 m buffer zone

Coordinates:

- A: 28° 45.709'S, 20° 32.238'E
- B: 28° 45.720'S, 20° 32.207'E
- C: 28° 45.718'S, 20° 32.151'E
- D: 28° 45.722'S, 20° 32.244'E
- E: 28° 45.771'S, 20° 32.182'E

TYPE OF PLAN:

LOCALITY PLAN



PROJECT:
PROPOSED EXTENSION OF THE ALHEIT CEMETERY, ON ERF 1409, ALHEIT, NORTHERN CAPE

PROJECT BY:
KAI IGARIB MUNICIPALITY



DRAWN BY:
HG

Appendix B

Photographs



Panorama view of the proposed extension of the existing cemetery at Alheit.



View of the existing cemetery, indicating the occupation of the site.



The proposed project entails the extension of the existing Alheit cemetery, to the front of the figure.



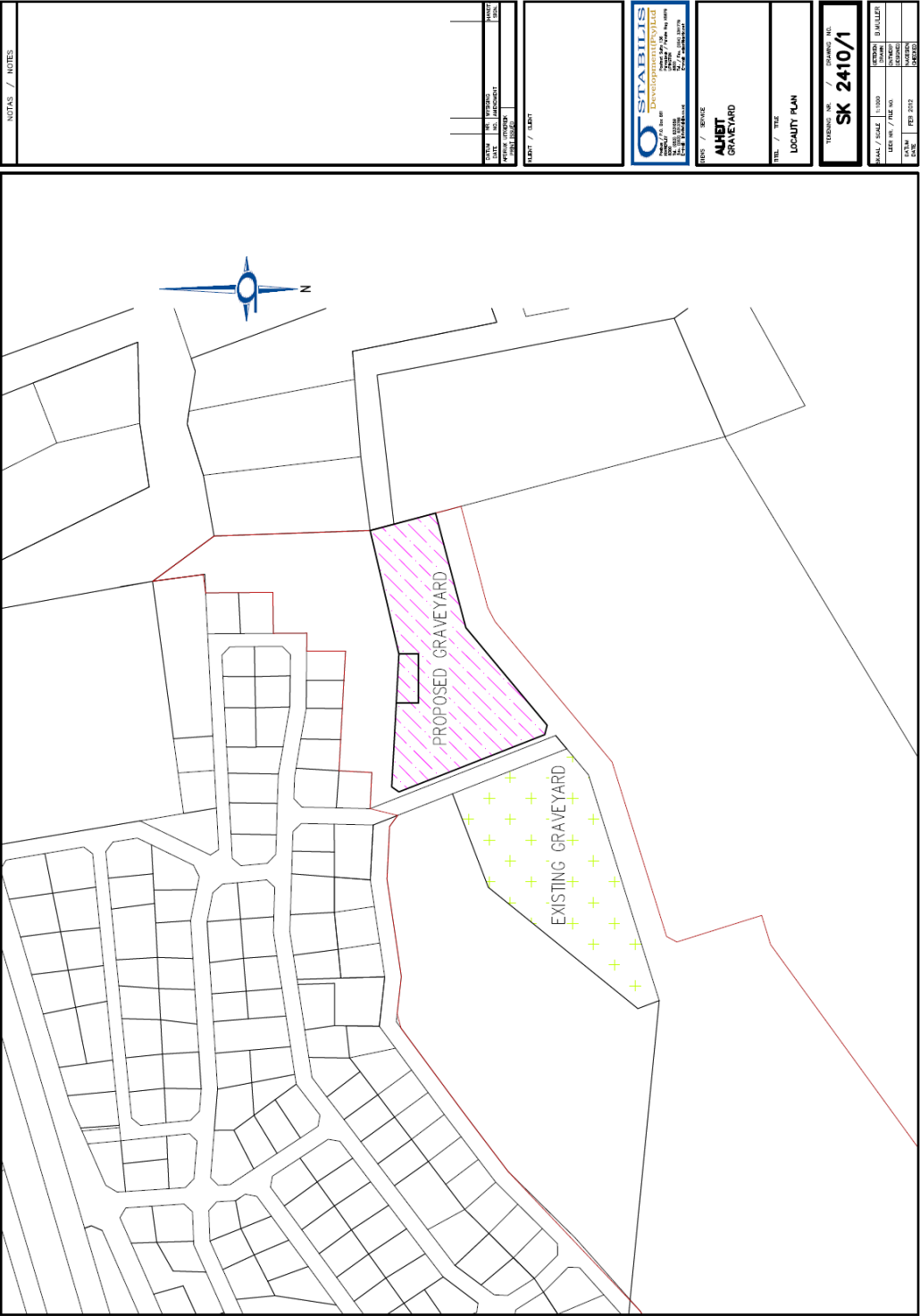
Avonia papyraceae observed on site. A permit should be obtained should any specimens on the site be removed.



Aloe claviflora observed on site. A permit should be obtained should any specimens on the site be removed.

Appendix C

Facility illustration(s)



NOTAS / NOTES

SCALE	1" = 20'
DATE	10/20/2012
PROJECT	ALHET GRAVEYARD
CLIENT	STABILIS DEVELOPMENT, LLC
PROJECT NO.	SK 2410/1

STABILIS
Development, LLC
10000 W. 10th St., Suite 100
Overland Park, MO 66204
Tel: 913.241.1111
Fax: 913.241.1112
www.stabilisdevelopment.com

DESIGN / SERVICE
ALHET GRAVEYARD

TITLE / TYPE
LOCALITY PLAN

PROJECT NO. / DRAWING NO.
SK 2410/1

SCALE / DATE	1" = 20' / 10/20/12
USER NO. / FILE NO.	10000 / 10000
DATE	FEB 2012
DESIGNER	D. HULLER
CHECKER	
APPROVER	

DATE: 10/15/18

NO.	1	10/15/18	10/15/18
DATE	10/15/18	10/15/18	10/15/18
TIME	10:00 AM	10:00 AM	10:00 AM
BY	ALBERT CHAIKIN	ALBERT CHAIKIN	ALBERT CHAIKIN

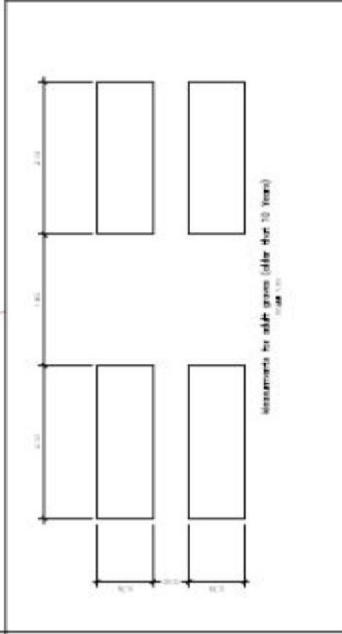
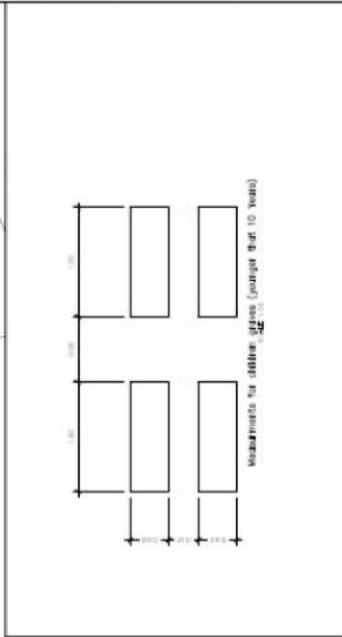
NET WT



ALBERT CHAIKIN
 100% PURE
 100% NATURAL
 100% SAFE
 100% EFFECTIVE

WEIGHT: 100g
SK 2410/2

NO.	1	10/15/18	10/15/18
DATE	10/15/18	10/15/18	10/15/18
TIME	10:00 AM	10:00 AM	10:00 AM
BY	ALBERT CHAIKIN	ALBERT CHAIKIN	ALBERT CHAIKIN



Appendix D

Specialist reports

Appendix D₁

Archaeological and Heritage Assessment

Appendix D₂

Ecological Report

Appendix D₃

Technical Report

Appendix D₄

Geotechnical Report

Appendix E

Comments and response report

Appendix E₁

List of identified interested and affected parties

Proposed extension of the cemetery at Alheit**Table 1: List of identified interested and / or affected parties**

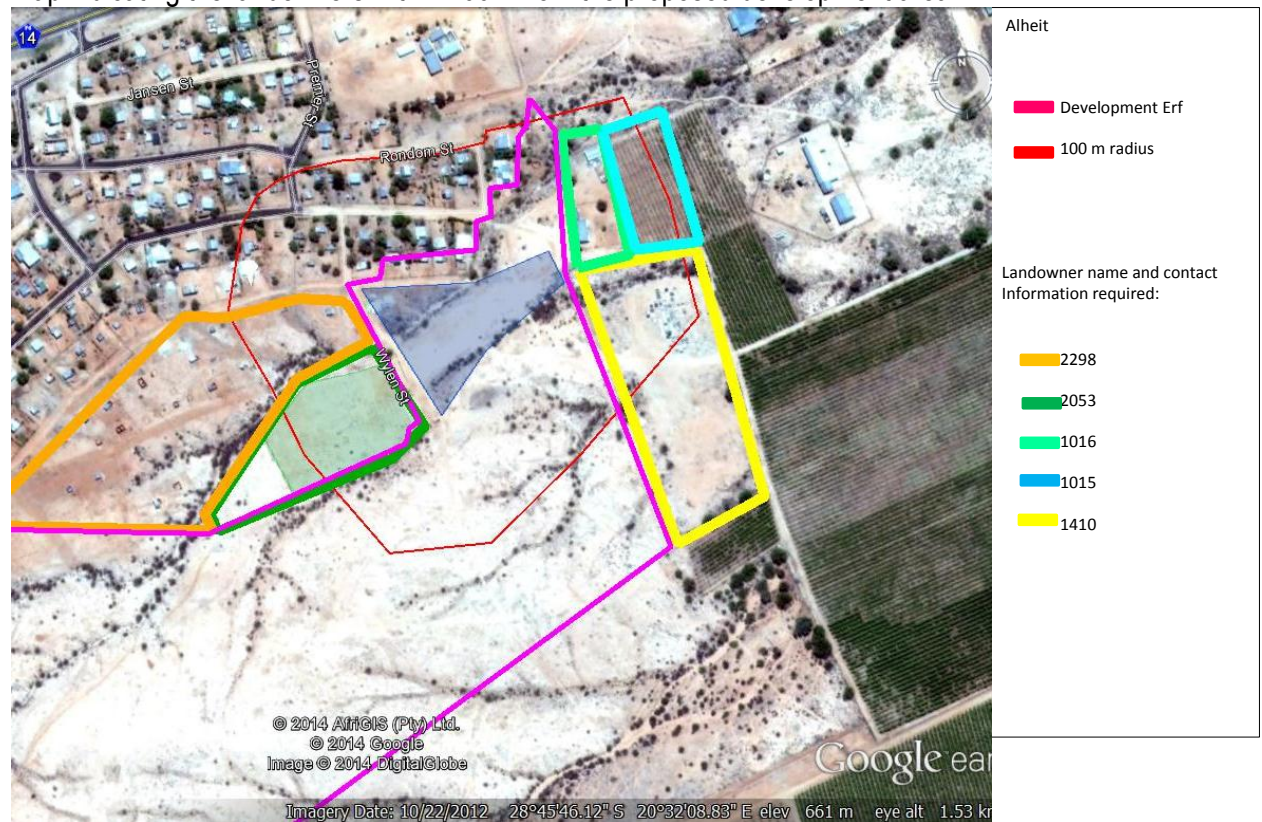
Authorities & Stakeholders	
Organization	Contact person and contact detail
Ward Councillor	<p>Cllr. Brenda Marelda Bock</p> <p>Kai !Garib Local Municipality</p> <p>Private Bag X6 Kakamas 8870</p> <p>9 11th Avenue Kakamas 8870</p> <p>T: 054 461 6400 F: 054 461 6401</p> <p>www.kaigarib.gov.za</p>
Local Municipal Manager	<p>Kai !Garib Local Municipality</p> <p>Private Bag X6 Kakamas 8870</p> <p>9 11th Avenue Kakamas 8870</p> <p>T: 054 461 6400 F: 054 461 6401</p> <p>www.kaigarib.gov.za</p>
District Municipal Manager	<p>ZF Mgcawu District Municipality (Previously known as Siyanda District Municipality)</p> <p>Private Bag X6039 Upington 8800</p> <p>Cnr Hill and Le Roux Streets Upington 8800</p> <p>T: 054 337 2800 F: 054 337 2888</p> <p>www.zfm-dm.co.za</p>

Department of Water Affairs	<p>Shaun Cloete Private Bag X5912 Upington 8800</p> <p>Louisvale Road Upington 8800</p> <p>T: 054 338 5800 F: 054 334 0205</p> <p>cloetes@dwa.gov.za</p>
Department of Agriculture, Forestry and Fisheries	<p>Jacoline Mans</p> <p>P. O. Box 2782 Upington 8800</p> <p>Louisvale Road Upington 8800</p> <p>T: 054 338 5909</p> <p>jacolinema@daff.gov.za</p>
SAHRA	On-line application will be submitted
Adjacent Landowners	
Property Name	Contact Name and Contact Detail
2298	<p>Kai !Garib Municipality Contact Person: Mr. V MacPherson</p> <p>Private Bag X6 Kakamas 8870</p> <p>T: 054 461 6700</p>
2053	<p>Kai !Garib Municipality Contact Person: Mr. V MacPherson</p> <p>Private Bag X6 Kakamas 8870</p> <p>T: 054 461 6700</p>
1410	<p>Kai !Garib Municipality Contact Person: Mr. V MacPherson</p> <p>Private Bag X6 Kakamas</p>

	8870 T: 054 461 6700
1016	Francis Coetzee No contact details available to date
1015	Republic of South Africa Dept of Public Works Private Bag X5007 Kimberley 8300

*Please note that adjacent landowners within the informal settlement were notified by means of a pamphlet distribution process that was undertaken on 19 June 2014.

Map indicating the landowners within 100m from the proposed development area.



Appendix E₂

Example of notification

ENVIRONMENTAL IMPACT ASSESSMENT BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

Date: 23 June 2014

Notice is given in terms of Regulation 54(2)(b) of the Environmental Impact Assessment Regulations of 2010 No. R. 543 published in Government Notice No. 33306 of 18 June 2010 of the National Environmental Management Act (Act No. 107 of 1998) that an Application for Environmental Authorisation was submitted to the Northern Cape Province Department of Environment and Nature Conservation for the following project:

Project:	Proposed expansion of a cemetery on Plot 1409, Kakamas (Alheit)
Locality:	Plot 1409, Kakamas (Alheit)
Project by:	Kai! Garib Local Municipality

If you have any information or comments regarding the environmental impact of the proposed development or need additional information regarding the proposed development, please submit your name, contact information and interest to Hanlie Groenewald at the following consultants **within 30 days** of this notice.

Environmental Consultants:



Town & Regional Planners,
Environmental &
Development Consultants

MDA
P.O. Box 20298
Willows
Bloemfontein
9320

Tel: 051 447 1583
Fax: 051 448 9839

Contact person:
Hanlie Groenewald
hanlie@mdagroup.co.za

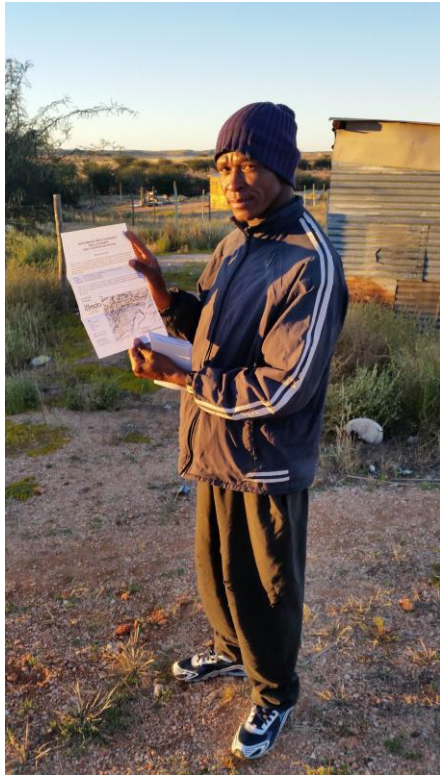
Map:



Appendix E₃

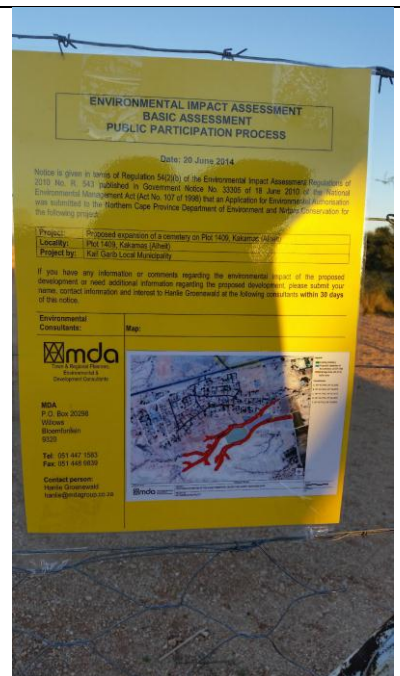
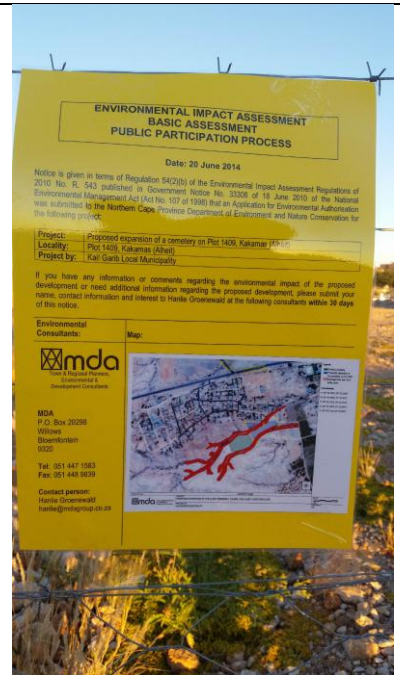
Proof of notification

Proof of pamphlet distribution process that was undertaken on 19 June 2014.



Map indicating area of pamphlet distribution (in red).

Proof of on-site notification



Proof of written notifications to the above mentioned parties to be attached to the fBAR.

Appendix E₄

List of registered parties

Please note that no parties registered to date. Any registered parties will be indicated in the final BAR.

Proposed extension of the cemetery at Alheit	
Table 2: List of registered parties	
Authorities & Stakeholders	
Ward Councillor	Cllr. Brenda Marelda Bock Kai !Garib Local Municipality Private Bag X6 Kakamas 8870
Local Municipal Manager	Kai !Garib Local Municipality Private Bag X6 Kakamas 8870
District Municipal Manager	ZF Mgcawu District Municipality (Previously known as Siyanda District Municipality) Private Bag X6039 Upington 8800
Department of Water Affairs	Shaun Cloete Private Bag X5912 Upington 8800
Department of Agriculture, Forestry and Fisheries	Jacoline Mans P. O. Box 2782 Upington 8800
SAHRA	On-line application will be submitted
Adjacent landowners	
Property Name	Contact Name and Contact Detail

Appendix E₅

List of comments received

No comments received to date.

All comments received during the PPP will be attached to the fBAR.

Appendix E₆

Proof of response to comments received

N/A as no comments were received to date.

Appendix F

Environmental Management Programme (EMPr)

Please refer to CD

Appendix G

Other information

Appendix G₁

Declaration of specialists

To be attached to fBAR

Appendix G₂

Declaration of EAP

To be attached to fBAR