



## BASIC ASSESSMENT REPORT

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(For official use only)

File Reference Number:

Application Number:

Date Received:


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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.

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**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.
10. 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?

YES

NO

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 Sishen Iron Ore Company (SIOC) is in the process of relocating linear infrastructure, which currently runs through the Sishen Iron Ore Mine (Sishen Mine) property, through a project known as the Sishen Western Expansion Project (SWEP). The SIOC maintains that the relocation is necessary due to the continued progression of the opencast mine pit in a westerly and south-westerly direction. The infrastructure earmarked for relocation are not all mining-related and are owned and operated by a variety of stakeholders including Eskom, Transnet Limited, Sedibeng Water Board, SIOC and the Northern Cape Department of Roads and Public Works. SIOC has the necessary environmental approvals (DEA Ref: 12/12/20/1436 and DENC Ref: NC/BA/JTG/GAM/SIS2/2012) in place and construction of the new infrastructure is underway.

Material for the construction of the relocated infrastructure has been sourced from various borrows pits along the servitude route. These borrow pits are also located on land owned by SIOC and were approved by the Department of Mineral Resources (DMR Ref: NC 30/5/1/3/2/1/2003 EM).

The existing services in the old infrastructure corridor require to be decommissioned and demolished. The demolition of these services will generate significant volumes of materials which need to be managed in a responsible and compliant manner. Portions of the materials generated during the demolition may be classified as wastes and the activities required to manage these wastes may fall within the ambit of the National Environmental Management: Waste Act, 2008.

The bulk of the materials will be reclaimed for further use by Transnet and Eskom and will not require disposal. Other metal materials will be sold to external parties as scrap. In order to substantially reduce transportation costs, SIOC has proposed that the inert waste and clean building rubble be disposed to a SWEP borrow pit. This material can be utilised to backfill portions of the borrow pit prior to rehabilitation. The borrow pit in question is located on the Eastern side of the new route for the Postmasburg-Hotazel railway line, just North of the Dingleton-Deben gravel road on the Remaining Extent (RE) and Portion 1 of the Farm Gamagara 541 – Refer to Appendix A for the Site Plan. A maximum of 25 000 tons of inert waste will be disposed into the borrow pit. After the disposal the waste material will be covered and the borrow pit will be rehabilitated in terms of the DMR requirements.

### 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.

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No.	Alternative type	Description
1.	Project Proposal	Backfill portions of a SIOC borrow pit with inert waste and clean building rubble prior to rehabilitation.
2.	Location (Alternative properties)	No alternative locations were considered as the footprint of the disposal site is determined by the location of the borrow pit.
3.	Activity type	No alternative activity types were considered as the material must be <u>disposed</u> at a disposal facility whether it is at the proposed borrow pit or another licensed facility.
4.	Design or Layout	No design or layout alternatives were considered as no designs or layouts will be required for the proposed activity.
5.	Technology	No technology alternatives were considered as no feasible or reasonable alternatives were identified that could handle a significant portion of the inert waste.
6.	Operational Aspects	No alternative operational aspects were considered as the proposed activity cannot be effectively be conducted in any other manner.
7.	No-go	Dispose inert waste and clean building rubble to an existing Waste Disposal Site. Rehabilitate the SIOC borrow pit without backfilling.

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 S1<sup>1</sup> (preferred or only site alternative)
- 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):**

27°	48.387'	22°	57.350'
°	'	°	'
°	'	°	'

**Latitude (S):**

**Longitude (E):**

N/A	'	°	'
°	'	°	'
°	'	°	'

°	'	°	'
°	'	°	'
°	'	°	'

°	'	°	'
°	'	°	'
°	'	°	'

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 A1<sup>2</sup> (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

or, for linear activities:

**Alternative:**

- Alternative A1 (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

**Size of the activity:**

4 750m <sup>2</sup>
m <sup>2</sup>
m <sup>2</sup>

**Length of the activity:**

N/A – not a linear activity
m
m

<sup>1</sup> "Alternative S.." refer to site alternatives.

<sup>2</sup> "Alternative A.." refer to activity, process, technology or other alternatives.

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

**Alternative:**  
 Alternative A1 (preferred activity alternative)  
 Alternative A2 (if any)  
 Alternative A3 (if any)

**Size of the site/servitude:**

<b>983ha</b>
m <sup>2</sup>
m <sup>2</sup>

## 5. SITE ACCESS

Does ready access to the site exist?  
 If NO, what is the distance over which a new access road will be built

<b>YES</b>	<b>NO</b>
m	

Describe the type of access road planned:

<b>N/A</b>
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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.

**REFER TO APPENDIX A FOR A SITE PLAN.**

## 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.

**REFER TO APPENDIX B FOR SITE PHOTOGRAPHS.**

## 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.

**THE ACTIVITY WILL NOT INCLUDE THE DEVELOPMENT OF ANY STRUCTURES.**

## 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?

<b>R0.00</b>	
<b>None.</b>	
There will be no additional income generated by this activity.	
<b>YES</b>	<b>NO</b>
<b>YES</b>	<b>NO</b>

Will the activity contribute to service infrastructure?  
 Is the activity a public amenity?

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

**None.**  
Existing Kumba Iron Ore (Kumba) employees and contractors already on the project will be assigned to perform the work.

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

**~R850 000.00**  
Estimate of the material handling and transportation costs.

What percentage of this will accrue to previously disadvantaged individuals?

**N/A**  
Existing Kumba employees and contractors already on the project will be assigned to perform the work. Kumba is compliant with the BEE requirements in terms of the mining charter.

How many permanent new employment opportunities will be created during the operational phase of the activity?

**None**

What is the expected current value of the employment opportunities during the first 10 years?

**R0.00**

What percentage of this will accrue to previously disadvantaged individuals?

**N/A**

## 9(b) Need and desirability of the activity

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

**Sishen Mine is one of the largest contributors to the economy of the Northern Cape. The Sishen Iron Ore Company (SIOC) is in the process of relocating linear infrastructure, which currently runs through the Sishen Iron Ore Mine (Sishen Mine) property, through a project known as the Sishen Western Expansion Project (SWEP). The SIOC maintains that the relocation is necessary due to the continued progression of the opencast mine pit in a westerly and south-westerly direction.**

**The purpose of the SWEP project is to enable Sishen Mine to stay in operation and to produce iron ore at the grades demanded by its clients and the world market. The expansion of Sishen Mine also safeguards the employment and economic development opportunities created by the mine. The majority of the economic activities in the area are linked to the mines**

**The SWEP project will result in the generation of large volumes of inert waste and clean building rubble. This material requires disposal in a responsible and compliant manner. SIOC propose to dispose inert waste and clean building rubble to a SWEP borrow pit.**

**Making use of a local borrow pit will substantially reduce transportation requirements. The disposal of material to an alternative (municipal) disposal facility will result in greater distance travelled which will lead to an increase in the number of disposal trucks on the roads. This will increase the pressure on the roads, which in return leads to greater degradation of the transport infrastructure. The larger number of vehicles on the roads will also have an impact on road safety, both for the general public and the contractors appointed to dispose the material. In increased travel distance will also lead to higher emission of greenhouse gas by the activity. A reduction in dust generation will also result from the reduced travel distance.**

**The backfilling of the borrow pit will also enhance the rehabilitation process and therefore improve the post construction aesthetic value of the area through the establishment of natural vegetation as well as species introduced during the rehab process. This will ultimately enrich the long term ecological value of the area.**

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

**The borrow pit in question is located within the Sishen Mine property boundary. No external party will benefit directly from the proposed disposal activities and backfilling. Should the material have to be transported to an alternative disposal facility, the number of vehicles on the road will increase which in return will have an impact on road safety. Disposal in the proposed borrow pit will also result in a reduction in greenhouse gas emissions which will have a small benefit to climate change.**

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

**None**

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

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	<p>The proposed disposal of inert waste and clean building rubble to a SWEP borrow pit has the potential to enhance the rehabilitation process and therefore improve the post construction aesthetic value of the area.</p> <p>There may be other situations where it is appropriate and or desirable to use inert waste and clean building rubble to backfill borrow pits.</p>
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BENEFITS:			
1.	Will the land use / development have any benefits for society in general?	YES	NO
2.	Explain:		
	<p><b>The borrow pit in question is located within the Sishen Mine property boundary. No external party will benefit from the proposed disposal activities and backfilling. Existing Kumba employees and contractors already on the project will be assigned to perform the work.</b></p>		
3.	Will the land use / development have any benefits for the local communities where it will be located?	YES	NO
4.	Explain:		
	<p><b>The borrow pit in question is located within the Sishen Mine property boundary. No external party will benefit from the proposed disposal activities and backfilling. Existing Kumba employees and contractors already on the project will be assigned to perform the work.</b></p>		

## 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 No. 107 of 1998 as amended.	National & Provincial	27 November 1998
Environmental Impact Assessment Regulations, GNR 543.	National & Provincial	18 June 2010
Integrated Environmental Management Guideline Series 7. Public Participation in the EIA Process	National	June 2010
National Environmental Management: Waste Act No. 59 of 2008	National & Provincial	1 July 2009
Schedule of Waste Management Activities, GN R 718.	National & Provincial	3 July 2009
Waste License Application Process for Waste Activities in terms of the National Environmental Management: Waste Act No. 59 of 2008.	National & Provincial	1 July 2009

## 11. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

### 11(a) Solid waste management

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

YES	NO
m <sup>3</sup>	

If yes, what estimated quantity will be produced per month?

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

N/A

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

N/A

Will the activity produce solid waste during its operational phase?

YES	NO
m <sup>3</sup>	

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?

YES	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?

YES	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?

YES	NO
-----	----

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 <sup>3</sup>	
YES	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.

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

YES	NO
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If yes, provide the particulars of the facility:

Facility name:	N/A		
Contact person:	N/A		
Postal address:	N/A		
Postal code:	N/A		
Telephone:	N/A	Cell:	N/A
E-mail:	N/A	Fax:	N/A

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

**No waste water will be generated.**

### 11(c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere? 

YES	NO
-----	----

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

YES	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:

**Transport of the waste to the borrow pit and material handling and shaping will produce particulate matter. Dust fallout levels at receptors should be maintained below the dust deposition bands set out in SANS 1929:2004. Particulate matter levels must be maintained below the PM10 levels set in the National Ambient Air Quality Standards (GN 1210 on 24 December 2009). The disposal of the inert waste does not trigger a requirement for an atmospheric emissions license.**

### 11(d) Generation of noise

Will the activity generate noise? 

YES	NO
-----	----

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

YES	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 noise in terms of type and level:

**Noise generation will be limited to the use of construction vehicles and machinery during the loading, transportation and disposal of material. There are no sensitive receptors located within close proximity to the site. The nearest residences are ±1.2km to the South West and the town of Dingleton is located more than 2.5km to the East.**

## 12. WATER USE

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

<input type="checkbox"/> municipal	<input type="checkbox"/> water board	<input type="checkbox"/> groundwater	<input type="checkbox"/> river, stream, dam or lake	<input type="checkbox"/> other	<b>the activity will use water currently available to the SWEP project</b>
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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:

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

N/A
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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:

**Reduce fuel use by disposal to local site rather than transport to a more distant waste disposal site.**

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:**

- 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):

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

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

YES	NO
-----	----

If YES, please complete form XX for each specialist thus appointed:

All specialist reports must be contained in Appendix D.

## 1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

**Alternative S1:**

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 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 S1:		Alternative S2 (if any):		Alternative S3 (if any):	
Shallow water table (less than 1.5m deep)	YES	NO	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	YES	NO	YES	NO
An area sensitive to erosion	YES	NO	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

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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<sup>E</sup>
- 4.2 Natural veld — scattered aliens<sup>E</sup>
- 4.3 Natural veld with heavy alien infestation<sup>E</sup>
- 4.4 Veld dominated by alien species<sup>E</sup>
- 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**

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 <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	<b>Bare soil</b> Existing borrow pit

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.

## 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**
- 5.2 Low density residential
- 5.3 Medium density residential
- 5.4 High density residential
- 5.5 Informal residential<sup>A</sup>
- 5.6 Retail commercial & warehousing
- 5.7 Light industrial
- 5.8 Medium industrial<sup>AN</sup>
- 5.9 Heavy industrial<sup>AN</sup>
- 5.10 Power station
- 5.11 Office/consulting room
- 5.12 Military or police base/station/compound
- 5.13 Spoil heap or slimes dam<sup>A</sup>
- 5.14 **Quarry, sand or borrow pit**
- 5.15 Dam or reservoir
- 5.16 Hospital/medical centre
- 5.17 School
- 5.18 Tertiary education facility
- 5.19 Church
- 5.20 Old age home
- 5.21 Sewage treatment plant<sup>A</sup>
- 5.22 Train station or shunting yard<sup>N</sup>
- 5.23 **Railway line**<sup>N</sup>
- 5.24 Major road (4 lanes or more)<sup>N</sup>
- 5.25 Airport<sup>N</sup>
- 5.26 Harbour
- 5.27 Sport facilities
- 5.28 Golf course
- 5.29 Polo fields
- 5.30 Filling station<sup>H</sup>
- 5.31 Landfill or waste treatment site
- 5.32 Plantation
- 5.33 Agriculture
- 5.34 River, stream or wetland
- 5.35 Nature conservation area
- 5.36 Mountain, koppie or ridge
- 5.37 Museum
- 5.38 Historical building
- 5.39 Protected Area
- 5.40 Graveyard

# BASIC ASSESSMENT REPORT

- 5.41 Archaeological site  
 5.42 Other land uses (describe)

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

If YES, specify and explain:	<b>The identified borrow pit is located within 500 m from the new route for the Postmasburg-Hotazel railway line. The disposal activities will not have any impacts on the railway line, nor will the railway line impact on the disposal operations.</b>
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If any of the boxes marked with an "An" are ticked, how will this impact / be impacted upon by the proposed activity.

If YES, specify and explain:	<b>N/A</b>
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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:	<b>N/A</b>
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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

	<b>NO</b>
<b>YES</b>	An archaeological study was conducted as part of the EIA for the Relocation of the Postmasburg-Hotazel railway line in 2009. This study indicated that the proposed site, which is located within the surveyed servitude, contains no elements of historical, cultural or archaeological interest. The site is already heavily disturbed seeing as it been developed into a borrow pit. This significantly limits the likelihood of disturbing any historical, archaeological, cultural or heritage sites or artefacts. An archaeologist will be immediately notified should any of the above mentioned sites be unveiled.

Archaeological or paleontological sites, on or close (within 20m) to the site?

If YES, explain:	<b>N/A</b>
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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:	<b>N/A</b>
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Will any building or structure older than 60 years be affected in any way?	<b>YES</b>	<b>NO</b>
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?	<b>YES</b>	<b>NO</b>

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—

# BASIC ASSESSMENT REPORT

- (a) fixing a notice board (of a size 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
  - (v) 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.

# BASIC ASSESSMENT REPORT

## 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.

**A COMPLETE LIST OF ALL ORGANS OF STATE AND APPLICABLE AUTHORITIES WITH THEIR CONTACT DETAILS, ARE LISTED IN APPENDIX C.**

List of authorities informed:

**Northern Cape Department of Environment and Nature Conservation (DENC);  
Gamagara Local Municipality;  
John Taolo Gaetsewe District Municipality;  
Department of Water Affairs;  
South African Heritage Resources Agency (SAHRA);  
Northern Cape Department of Roads and Public Works (DRPW);  
Department of Mineral Resources (DMR);  
Northern Cape Department of Agriculture, Forestry and Fisheries (DAFF);  
Northern Cape Department of Health;  
Northern Cape Department of Labour.**

List of authorities from whom comments have been received:

**None**

## 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.

Has any comment been received from stakeholders?

**YES NO**

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

**N/A**

## 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.

**None**

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):

**N/A**

### 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 (preferred alternative)**

#### **Direct Impacts:**

##### **Climate change and Greenhouse Gas Emissions**

The proposed disposal of material into a SWEP borrow pit will require transport in heavy motor vehicles which consume fuel and produce greenhouse gas emissions. The use of a local borrow pit rather than a general waste

disposal site will significantly reduce the distance which these materials must be transported. This will reduce the use of fuel and the emissions from the transport vehicles, thereby lowering the impact of the disposal on climate change.

**SHORT-TERM, NEGATIVE LOW IMPACT**

### Air Quality

Dust will be generated due to the movement of construction vehicles and machinery during the loading, transportation and disposal of material as well as from the material handling activities. High winds across loose surfaces can also result in fine particles becoming airborne. On the roads the dust can affect visibility and traffic safety. When dispersed, the dust could be a nuisance to nearby receptors and can settle on plants thereby negatively impacting their vigour and palatability and reducing the grazing capacity in the area. There are no fixed receptors within 1 km of the borrow pit.

**SHORT-TERM, NEGATIVE MODERATE IMPACT.**

### Noise

Operation of the construction vehicles and machinery for material handling and transport will generate noise. This is likely to result in a minor increase in the ambient noise levels in the area. There are no sensitive receptors located within close proximity to the proposed disposal site. The nearest residences are  $\pm 1.2$ km to the South West and the town of Dingleton is located more than 2.5km to the East. Noise generation will be limited to normal working hours (07:00 – 17:00).

**SHORT-TERM, NEGATIVE LOW IMPACT.**

### Surface Water

The proposed borrow pit is not located within close proximity to any surface water sources or drainage lines. The inert materials proposed to be disposed in the borrow pit contain no contaminants. The low rainfall and high infiltration rates mean that significant sediment is unlikely to be transported to any surface water resources.

**NO IMPACT.**

### Groundwater

The inert materials proposed to be disposed in the borrow pit contain no contaminants and no recharge into groundwater sources is expected.

**NO IMPACT.**

### Aesthetics

The partial backfilling of the borrow pit will enable the footprint to be shaped to more closely match the surrounding natural topography. This process has the potential to enhance the rehabilitation process and therefore improve the post disposal aesthetic value of the area.

**LONG-TERM, POSITIVE LOW IMPACT.**

### Ecology and Biodiversity

The partial backfilling of the borrow pit is expected to enhance the rehabilitation process and therefore support the establishment of natural vegetation as well as species introduced during the rehab process. This will ultimately enrich the long term ecological value of the area.

**LONG-TERM, POSITIVE LOW IMPACT.**

### Alien and Invasive Plants

The disturbance of the soil surface and the provision of a growth medium could provide opportunity for alien and invasive plant species to establish and proliferate.

**LONG-TERM, NEGATIVE LOW IMPACT.**

### Soils and land capability

The partial backfilling of the borrow pit will enable the footprint to be shaped to more closely match the surrounding natural topography. This is expected to enhance soil stability due to reduced run-off. The future land capability (grazing capacity etc.) is also expected to increase due to improved vegetation growth that will be possible on the backfilled area.

**LONG-TERM, POSITIVE LOW IMPACT.**

### Roads, Traffic and Infrastructure.

The proposed disposal of material into a SWEP borrow pit will require transport in heavy motor vehicles which will increase traffic and place additional pressure on the road infrastructure. The proposed disposal into the borrow pit, rather than a general waste disposal site will significantly reduce the distance which these materials must be transported. This will reduce the number of transport vehicles on public roads, thereby limiting the impact on road safety and lowering the traffic volumes and degradation of roads. The proposed disposal activities will have no impact on other infrastructures such as the new Postmasburg-Hotazel Transnet Railway line.

**SHORT-TERM, NEGATIVE LOW IMPACT.**

### Land Use.

The proposed site has been disturbed with the excavation of the borrow pit. It can currently be classified as bare, open soil. The proposed disposal activities are expected to enhance the rehabilitation process and therefore support the establishment of natural vegetation. This is also expected to fast-track the chance back to natural veld.

**LONG-TERM, POSITIVE LOW IMPACT.**

### Economic Impact.

The proposed activity will not generate any additional income and will add no economic value.

**NO IMPACT**

## **Visual Impact.**

During the disposal process the number of construction vehicles and movement at the site will increase. However, the partial backfilling of the borrow pit will enable the footprint to be shaped to more closely match the surrounding natural topography. Dust generation will also be minimised. This process has the potential to enhance the rehabilitation process and therefore improve the post disposal aesthetic value of the area.

**LONG-TERM, POSITIVE LOW IMPACT.**

## **Cultural and Heritage Resources.**

An archaeological study was conducted as part of the EIA for the Relocation of the Postmasburg-Hotazel railway line in 2009. This study indicated that the proposed site, which is located within the surveyed servitude, contains no elements of historical, cultural or archaeological interest. The site is already heavily disturbed seeing as it been excavated, creating a borrow pit. This significantly limits the likelihood of disturbing any historical, archaeological, cultural or heritage sites or artefacts.

**NO IMPACT.**

## **Indirect Impacts:**

**No noteworthy indirect impacts on the environment are expected from the disposal of inert waste and clean building rubble into the proposed SWEP borrow pit.**

## **Cumulative Impacts:**

**For the purpose of this Basic Assessment Report, cumulative impacts will be determined as:**

$$\begin{array}{c} \textbf{Existing Impacts} \\ \text{Existing impacts within the project area. Current level of degradation associated with existing developments and} \\ \text{operations.} \\ + \\ \textbf{Direct Impacts} \\ \text{Impacts of the proposed disposal of material into a SWEP borrow pit} \\ = \\ \textbf{Cumulative Impacts} \\ \text{Existing Impacts (current level of degradation) associated with existing developments and operations in the project} \\ \text{area combined with the impacts of the proposed disposal of material into a SWEP borrow pit.} \end{array}$$

## **Sources of Existing Impacts:**

Sishen Iron Ore Mine (Sishen Mine), located approximately 3km to the East of the proposed disposal site, is one of the largest open pit mines in the world. Mining is conventional truck and shovel opencast operations. It involves topsoil stripping and stockpiling; blast hole drilling; blasting; dozing and excavation; shovelling and loading of material; haulage of run of mine ore from the mine pit to the crushing plants; and haulage of waste material to the mining waste deposits, or back into mined out areas of the mine as part of backfilling of the mine pit. The mine also has a great deal of transport infrastructure including railways, access roads etc. Sishen Mine employs in excess of 3,500 people who need to commute to and from the mine on a daily basis.

As the mine pit progresses westwards, it is moving increasingly closer to surface infrastructure. The Sishen Iron Ore Company is in the process of relocating this linear infrastructure to the Western side of the Sishen Mine property. This project includes the relocation of the following infrastructure:

- Rail and Associated Infrastructure:
  - A section of the Postmasburg-Hotazel Transnet freight railway line;
  - A section of the Sishen Lylyveld rail turnout to Sishen load-out stations;
  - Associated infrastructure displaced by relocation of the railway lines;
    - Two Transnet traction substations,
    - Two 132 kV Eskom power lines to supply the traction substations,
    - A section of the Dingleton-Dibeng public gravel road.
- Power lines (not associated with rail infrastructure)
  - Eskom power lines;
    - A section of the 275 kV Eskom power line,
    - A section of the 400 kV Eskom servitude.
  - Sishen Mine internal power lines;
    - A section of a 66 kV power line for mine pit electrification.
- Water Pipeline
  - A section of the Vaal-Gamagara water pipeline.

Khumani Iron Ore Mine, owned by Assmang Limited, is located directly adjacent to Sishen Mine. Khumani Mine is a 10 million tonnes per annum operation, but Assmang is reportedly planning to increase production to 14 million tonnes per annum.

Numerous private and public gravel roads, including the Dingleton-Dibeng gravel road, are present in the project area and are frequently used by town residents, farmers and project contractors and employees.

Several agricultural and game farms are also present in the larger project area.

## **Cumulative impacts:**

### **Climate change and Greenhouse Gas Emissions**

A great deal of Greenhouse gasses are emitted in the larger project area, contributing to climate change. Sishen Mine is the main contributor with large numbers of haul trucks and other large machinery operating on the mine. Mine employees commuting to and from the mine, whether by taxi, private motor or aeroplane, also contribute to these emissions. Khumani Mine and the SWEP project (temporary) also contribute to these emissions.

Even though the proposed disposal of inert waste and building rubble into a SWEP borrow pit rather than a general waste disposal site will significantly reduce the use of fuel and the emissions from the transport vehicles, the existing Greenhouse gas emissions in the area are already to such an extent that the impacts cannot be countered by the proposed project.

**SHORT-TERM, NEGATIVE MODERATE IMPACT**

### **Air Quality**

Most of the current projects and operations in the area generate dust in one or the other way. Dust generation at the mines and SWEP is caused by activities such as topsoil stripping, blasting; dozing and excavation, shovelling and loading of material, haulage of run of mine ore from the mine pit to the crushing plants, and haulage of waste material to the mining waste deposits, deposition of waste materials, travelling on gravel roads etc. High winds across loose surfaces can also result in fine particles becoming airborne. On the roads the dust can affect visibility and traffic safety. When dispersed the dust could be a nuisance to adjacent receptors (Kathu, Dingleton, farmers etc.) and can settle on plants thereby negatively impacting their vigour and palatability and reducing the grazing capacity in the area.

The proposed disposal activities will add to the existing dust generation (pollution) in the area through the movement of construction vehicles and machinery during the loading, transportation and disposal of material as well as from the material handling activities.

**LONG-TERM, NEGATIVE HIGH IMPACT**

### **Noise**

The main sources of noise generation in the area are from blasting, machinery movement, reverse horns, trains etc. The larger area already experiences relatively high ambient noise levels.

The proposed project will generate noise through the movement of construction vehicles and machinery during the loading, transportation and disposal of material as well as from the material handling activities and this is likely to result in a minor increase in the ambient noise levels in the area.

**LONG-TERM, NEGATIVE MODERATE IMPACT.**

### **Surface Water**

The surface water resources in the larger area are not under a great deal of pressure from existing projects and operations. Impacts include sedimentation from loose particles blown into pans, especially in close proximity to Sishen Mine. Runoff due to heavy rains may also result in materials being deposited in surface water sources.

No additional surface water impacts are expected from the proposed disposal project.

**LONG-TERM, NEGATIVE LOW IMPACT.**

### **Groundwater**

Water shortages are experienced due to burst water pipes and shortages of groundwater due to de-watering (necessary to maintain dry and safe working conditions in the mine pit) at the mine. This resulting in visible sign as vegetation growth is affected by lowering of the groundwater table. Groundwater is also used for dust suppression on and in the vicinity of Sishen Mine.

The materials proposed to be disposed in the borrow pit contain no contaminants and no recharge into groundwater sources is expected.

**LONG-TERM, NEGATIVE MODERATE IMPACT.**

### **Aesthetics**

Sishen Mine and the other operations with the project area have permanently intruded on the aesthetic value of the area. The sense of place is permanently disrupted and will never return to the same state as prior to mining.

Positive impacts from the backfilling of the borrow pit will not have any significant positive impacts on the overall aesthetic value of the area.

**LONG-TERM, NEGATIVE HIGH IMPACT.**

### **Ecology and Biodiversity**

The current projects and operations have already greatly impacted on the prevailing ecology and biodiversity in the area. The establishment of the mines in the area together with the relocation of infrastructure and associated activities have led to a loss of large areas of natural habitats. Habitats in the area have been affected in terms of ecological processes, fragmentation and reduced connectivity for animal movement.

The enhanced rehabilitation due to the backfilling process and ultimate enrichment of the long term ecological value of the area will not have any significant positive impacts on the overall ecology and biodiversity of the area.

**LONG-TERM, NEGATIVE MODERATE IMPACT.**

### **Soils and land capability**



Soils in the area have been heavily impacted upon. Topsoil stripping has been carried out in preparation of a great deal of the operations currently underway in the area. This includes preparation for mining, excavation of borrow pits, laydown areas etc. All these activities have the potential to result in impacts on soils due to earthworks and poses erosion risks, especially in areas close to drainage lines. Agricultural land capability in the area is low and generally suitable for light grazing, with small pockets of land, on steeper slopes that are not suitable for agriculture and only suitable for conservation. The area is generally not conducive to cultivation due to the low rainfall, semi-arid climate and shallow soil depths. The current projects and operations do not affect agricultural practices on private farms as all the directly affected and adjacent properties are owned by the company operating on that specific area.

The expected increase in future land capability (grazing capacity etc.) due to the proposed backfilling of the borrow pit will not make up for all the damage that has already been done to the soils and land capability in the area.

**LONG-TERM, NEGATIVE MODERATE IMPACT.**

#### **Roads, Traffic and Infrastructure.**

The majority of the roads and other transportation infrastructure in the area are present due to the establishment of Sishen Mine. Khumani Mine was only established at a much later stage. The relocation project (SWEP) currently underway in the area is also due to the expansion of the mine. Traffic volumes are constantly increasing due to an influx of people to the area, which is mostly mining related. Numerous construction vehicles (including large trucks) are permanently visible on the roads in the area. This results in degradation of the roads and also impact on the road safety.

The reduction in the number of transport vehicles on public roads due to the proposed disposal into the borrow pit, rather than a general waste disposal site, will have a limited impact on the existing traffic volumes and road safety.

**LONG-TERM, NEGATIVE MODERATE IMPACT.**

#### **Land Use.**

Large areas within the project area have been converted from natural open veld or agriculture to mining and other commercial uses. Even post closure and rehabilitation of the mines, the area is not expected to fully return to its natural state.

The proposed disposal activities are expected to enhance the rehabilitation process and therefore support the establishment of natural vegetation at the proposed borrow pit site only. This will not have any positive impacts on the other operations in the area

**LONG-TERM, NEGATIVE LOW IMPACT.**

#### **Economic Impact.**

Sishen Mine is one of the largest contributors to the economy of the Northern Cape. The purpose of the SWEP project is to enable Sishen Mine to stay in operation and to produce iron ore at the grades demanded by its clients and the world market. The expansion of Sishen Mine also safeguards the employment and economic development opportunities created by the mine. The majority of the economic activities in the area are linked to the mines (Sishen and Khumani) in some way.

The proposed activity will not generate any additional income and will add no economic value.

**LONG-TERM, POSITIVE HIGH IMPACT.**

#### **Visual Impact.**

Since the 1950's, mining activities have altered the landscape. The domination of mining and other related activities (vehicle movement, topsoil stripping etc.) and infrastructure (power lines, railway lines, haul roads, offices etc.) in the vicinity of the site, contribute greatest to the visual impacts in the larger area – a rolling, open landscape dominated by the soil stockpiles that can be seen protruding above the horizon from 20 km away. The generation of dust due to mining related activities (blasting, driving on gravel roads etc.) is the most pressing concern for the adjacent receptors (farmers and Dingleton residents).

Positive spin-offs from the proposed disposal activities will not impact upon the existing visual impacts.

**LONG-TERM, NEGATIVE HIGH IMPACT.**

#### **Cultural and Heritage Resources.**

Previous specialist studies have shown that very limited cultural or heritage resources are present in the larger area.

The proposed site contains no elements of historical, cultural or archaeological significance.

**NO IMPACT.**

#### **No-go Alternative**

The no-go alternative will entail the inert waste and clean building rubble generated from the decommissioning of infrastructure to be transported and disposed at an alternative disposal facility. As there are no licenced disposal facilities in the larger Kathu area that has the capacity to accept the material it will have to be transported to an alternative disposal facility in the area which is either at Kuruman, approximately 70km to the North East or Olifantshoek, approximately 40km to the South West. Despite the increase in environmental impacts, the transportation of these materials to an alternative disposal facility will have significant cost implications to the client.

#### **Direct impacts:**

##### **Climate change and Greenhouse Gas Emissions**

The greater distance travelled to an alternative disposal facility will result in an increase in fuel use and the associated higher Greenhouse gas emissions.

**SHORT-TERM, NEGATIVE MODERATE IMPACT**

## Air Quality

Both the location and travel distance of the disposal activity will differ from the preferred alternative. All the anticipated impacts will still prevail. The no-go alternative will still result in the generation of dust due to the movement of construction vehicles and machinery during the loading, transportation and disposal of material as well as from the material handling activities. High winds across loose surfaces can also result in fine particles becoming airborne. On the roads the dust can affect visibility and traffic safety. When dispersed, the dust could be a nuisance to nearby receptors and can settle on plants thereby negatively impacting their vigour and palatability and reducing the grazing capacity in the area.

**SHORT-TERM, NEGATIVE MODERATE IMPACT.**

## Noise

Both the location and travel distance of the disposal activity will differ from the preferred alternative. All the anticipated impacts will still prevail. Operation of the construction vehicles and machinery for material handling and transport will generate noise. This is likely to result in a minor increase in the ambient noise levels in the area. Noise generation will be limited to normal working hours (07:00 – 17:00).

**SHORT-TERM, NEGATIVE LOW IMPACT.**

## Surface Water

Depending on the exact location of the alternative disposal facility and the proximity of surface water sources, the disposal of inert waste is not expected to have any negative impacts on surface water sources.

**NO IMPACT.**

## Groundwater

Regardless of the location of the alternative disposal facility, the inert materials to be disposed contain no contaminants and no recharge into groundwater sources is expected.

**NO IMPACT.**

## Aesthetics

The partial backfilling of the borrow pit will enable the footprint to be shaped to more closely match the surrounding natural topography. This process has the potential to enhance the rehabilitation process and therefore improve the post disposal aesthetic value of the area. Should the material be disposed elsewhere, the rehabilitation process might be delayed due to the lack of material to be used for backfilling. The disposal at an alternative facility will increase the height and size of existing waste dumps.

**LONG-TERM, NEGATIVE LOW IMPACT.**

## Ecology and Biodiversity

The partial backfilling of the borrow pit is expected to enhance the rehabilitation process and therefore support the establishment of natural vegetation as well as species introduced during the rehab process. This will ultimately enrich the long term ecological value of the area. The disposal of the material at an alternative disposal facility might delay the rehabilitation process and the establishment of natural vegetation due to the lack of material to be used for backfilling.

**LONG-TERM, NEGATIVE LOW IMPACT.**

## Soils and land capability

The partial backfilling of the borrow pit will enable the footprint to be shaped to more closely match the surrounding natural topography. This is expected to enhance soil stability due to reduced run-off. The future land capability (grazing capacity etc.) is also expected to increase due to advanced vegetation growth. The lack of material for backfilling might lead to increased run-off which might result in poor soil stability and eventual erosion.

**LONG-TERM, NEGATIVE LOW IMPACT.**

## Roads, Traffic and Infrastructure.

The disposal of material to an alternative disposal facility will result in greater distance travelled which will lead to an increase in the number of disposal trucks on the roads. This will increase the pressures in the roads, which in return leads to greater degradation of the transport infrastructure. The larger number of vehicles on the roads will also have an impact of road safety, both for the general public and the contractors appointed to dispose the material.

**SHORT-TERM, NEGATIVE LOW IMPACT.**

## Land Use.

The proposed site has been disturbed with the excavation of the borrow pit. It can be classified as bare, open soil. The proposed disposal activities are expected to enhance the rehabilitation process and therefore support the establishment of natural vegetation. The land use is expected to gradually chance back to natural veld. The lack of material to be used for backfilling in the borrow pit will prolong the process of vegetation growth and the conversion back to natural veld.

**LONG-TERM, NEGATIVE LOW IMPACT.**

## Economic Impact.

The only additional income generated through the disposal at an alternative disposal facility is to the appointed contractor due to increased travel distances and working time. The proposed activity will add no economic value.

**NO IMPACT**

## Visual Impact.

Vehicle movement and dust generation will increase due to further travel distances. Also, the lack of material to be used for backfilling the borrow pit will prolong the rehabilitation process and the establishment of natural vegetation. The borrow pit will also not match the surrounding natural topography.

**LONG-TERM, NEGATIVE LOW IMPACT.**

**Cultural and Heritage Resources.**

The disposal of material at an alternative (established) disposal facility is not expected to have an effect on any historical, archaeological, cultural or heritage sites or artefacts.

**NO IMPACT.**

**Indirect impacts:**

**No noteworthy negative, indirect impacts on the environment are expected from the disposal of inert waste and clean building rubble into an alternative waste disposal site.**

**Cumulative impacts:**

**Climate change and Greenhouse Gas Emissions**

The greater distance travelled to an alternative disposal facility, together with the disposal vehicles already travelling to this facility to dispose waste, will result in an increase in fuel use and the associated higher Greenhouse gas emissions.

**SHORT-TERM, NEGATIVE LOW IMPACT**

**Air Quality**

Dust will be generated due to the movement of construction vehicles and machinery during the loading, transportation and disposal of material as well as from the material handling activities. The same applies to the current activities at the alternative disposal facility. High winds across loose surfaces can also result in fine particles becoming airborne. On the roads the dust can affect visibility and traffic safety. Depending on the exact location of the alternative disposal facility dust, when dispersed, could be a nuisance to nearby receptors and can settle on plants thereby negatively impacting their vigour and palatability and reducing the grazing capacity in the area.

**SHORT-TERM, NEGATIVE MODERATE IMPACT.**

**Noise**

Operation of the construction vehicles and machinery for material handling and transport to the alternative disposal facility currently generates noise. The disposal of inert waste to this facility is likely to result in a minor increase in the ambient noise levels in the area.

**SHORT-TERM, NEGATIVE LOW IMPACT.**

**Surface Water**

Depending on the exact location of the alternative disposal facility and the proximity of surface water sources, the disposal of inert waste is not expected to have a negative impact on surface water.

**NO IMPACT.**

**Groundwater**

The impact on groundwater sources at the alternative disposal facility is dependent on the geology, layout, location and materials currently being disposed at this disposal facility.

The inert materials proposed to be disposed in the borrow pit contain no contaminants and no recharge into groundwater sources is expected.

**NO IMPACT.**

**Aesthetics**

The alternative waste disposal facility has only a certain amount of airspace to receive general waste generated in urban areas. To dispose of the inert waste and clean building rubble at the facility would consume a large volume of the airspace. This would drastically shorten the operational life of the facility and hasten the need for a new waste disposal site.

**LONG-TERM, NEGATIVE LOW IMPACT.**

**Ecology and Biodiversity**

The ecology and biodiversity at the alternative disposal facility is most likely already disturbed beyond repair. The disposal of additional material to this facility is not expected to have added. However, the alternative waste disposal facility has only a certain amount of airspace to receive general waste generated in urban areas. To dispose of the inert waste and clean building rubble at the facility would consume a large volume of the airspace. This would drastically shorten the operational life of the facility and hasten the need for a new waste disposal site and the disturbance of another, possibly natural, area.

**POTENTIAL FUTURE NEGATIVE IMPACT.**

**Soils and land capability**

The soils and land capability at the alternative disposal facility is most likely already disturbed beyond repair. The disposal of additional material to this facility is not expected to have added impacts. However, the alternative waste disposal facility has only a certain amount of airspace to receive general waste generated in urban areas. To dispose of the inert waste and clean building rubble at the facility would consume a large volume of the airspace. This would drastically shorten the operational life of the facility and hasten the need for a new waste disposal site and the disturbance of another, possibly natural, area.

**POTENTIAL FUTURE NEGATIVE IMPACT.**

**Roads, Traffic and Infrastructure.**

The disposal vehicles currently travelling to the alternative disposal facility is already placing pressures on the roads

and transport infrastructure. The disposal of material to the alternative disposal facility will result in greater distance travelled which will lead to a further increase in the number of disposal trucks on the roads. This will increase the pressures in the roads, which in return leads to greater degradation of the transport infrastructure. The larger number of vehicles on the roads will also have an impact of road safety, both for the general public and the contractors appointed to dispose the material.

**SHORT-TERM, NEGATIVE LOW IMPACT.**

### **Land Use.**

The alternative waste disposal facility has only a certain amount of airspace to receive general waste generated in urban areas. To dispose of the inert waste and clean building rubble at the facility would consume a large volume of the airspace. This would drastically shorten the operational life of the facility and hasten the need for a new waste disposal site and the disturbance of another, possibly natural, area.

**SHORT-TERM, NEGATIVE LOW IMPACT.**

### **Economic Impact.**

The only additional income generated through the disposal at an alternative disposal facility is to the appointed contractor due to increased travel distances and working time. The proposed activity will add no economic value.

**NO IMPACT**

### **Visual Impact.**

The increased volumes of waste to be disposed at the alternative facility will increase the visibility of the facility due to higher waste dumps. During the disposal process the number of construction vehicles and movement at the site will increase and this will also result in an increase in dust generation.

**LONG-TERM, NEGATIVE LOW IMPACT.**

### **Cultural and Heritage Resources.**

The disposal of material at an alternative (established) disposal facility is not expected to have an effect on any historical, archaeological, cultural or heritage sites or artefacts. However, the alternative waste disposal facility has only a certain amount of airspace to receive general waste generated in urban areas. To dispose of the inert waste and clean building rubble at the facility would consume a large volume of the airspace. This would drastically shorten the operational life of the facility and hasten the need for a new waste disposal site and the disturbance of another area which might contain some of the above mentioned sites or artefacts.

**POTENTIAL FUTURE NEGATIVE IMPACT**

## **Mitigation Measures**

The mitigation measures discussed in this section will focus on the direct impacts of the preferred alternative. Please refer to Appendix D for the detailed Environmental Management Programme.

### **Mitigation Measures:**

#### **Climate change and Greenhouse Gas Emissions.**

- Maintain machinery, vehicles and equipment in good condition to prevent unnecessary emissions.
- Plan material handling and vehicle logistics to minimise the operational hours and distances travelled.

#### **Air Quality.**

- Minimise movement of traffic as far as reasonably possible.
- Unsealed access roads and road verges of sealed roads should be watered by means of water carts.
- Unsealed laydown areas should be watered as required by means of water carts.
- Speed limits on unsealed roads will be limited to a maximum speed consistent with the minimisation of dust generation. Nominal speed limit of 40 km/h applies unless otherwise marked.
- All installed dust control equipment, such as water sprays, shall be operated and maintained to prevent or minimise fugitive dust emissions.
- Complaints regarding dust to be registered in the complaints register and to be investigated and managed in accordance with the incident reporting procedure.

#### **Noise.**

- Maintain machinery, vehicles and equipment in good condition to prevent unnecessary noise outputs.
- Minimise movement of traffic along public roads as far as reasonably possible.
- The contractor shall ensure that his workers do not create unnecessary noise such as hooting or shouting.
- Complaints regarding noise to be registered in the complaints register and to be investigated and managed in accordance with the incident reporting procedure.
- Noise levels and other disturbances in close proximity to residences or built-up areas to be limited to daylight hours.

#### **Surface Water.**

- Waste disposal may only take place within the approved footprint.
- The location and depth of waste in the final waste body must be planned to ensure a surface profile that is compatible with the adjacent area and is free draining.
- All petroleum products to be stored in lined and bunded area.
- Dispensing of petroleum products to take place over a drip tray or within a lined and bunded area.
- Use drip trays under machinery, vehicles and equipment with minor fuel or hydraulic fluid leaks.
- Repairs and maintenance to machinery, vehicles and equipment to be undertaken in workshop. Any on-site emergency repairs to be undertaken over impervious surfaces.

## **Groundwater.**

- Only inert waste (as per the NEMWA definition) may be disposed to the site. No other general or hazardous waste is permitted.

## **Aesthetics.**

- The disposed waste must be compacted and shaped to ensure a profile that is compatible with the surrounding areas.
- The waste profile must be covered with a soil medium at least 30 cm thick which can sustain a vegetation sward.
- A self-sustaining vegetation sward must be established on all disturbed areas. Naturally occurring indigenous species should be used in the re-vegetation of disturbed areas. It is advised to use at least 5 different species. Within a period of 1 year the vegetation must provide groundcover that is comparable to that found naturally.

## **Ecology and Biodiversity.**

- Disturbance of natural vegetation beyond the footprint of the borrow pit is not permitted.
- The footprint of disturbance must be kept to the minimum required for the activity and reasonable vehicular and equipment movement.
- Trapping, catching and hunting of all animals are prohibited.
- Collection of any plant material from natural veld areas is prohibited.
- Damage to and removal of protected species of vegetation is prohibited unless permits for removal from the Department of Agriculture, Fisheries and Forestry (DAFF) and the DENC are in place (licenses and permits are required where protected tree and plant species cannot be avoided and have to be removed, respectively).
- Waste disposal may only take place within the approved footprint.
- Open fires for heating and cooking purposes will not be allowed on site or near areas where there is a risk of starting a veld fire.
- Alien and invasive plants need to be monitored and any plants establishing on the disturbed areas removed.

## **Soils and land capability.**

- Waste may not be disposed of onto any area with topsoil. If necessary strip and stockpile the topsoil before waste disposal.
- Stockpiled topsoil that has been stripped during the excavation of the borrow pit should not be disturbed during the disposal process.

## **Roads, Traffic and Infrastructure.**

- Minimise movement of traffic along public roads as far as reasonably possible.
- Road sections affected by the disposal operations to be maintained in an acceptable condition.
- No new roads and tracks will be created, unless approved by the ECO.
- All vehicles to adhere to prescribed / agreed speed limits as indicated on road signage and/or specific instructions or procedures issued by the SM or ECO to prevent accidents and road damage.
- Upon completion of disposal activities, all access roads used during the disposal process must be rehabilitated to their original condition.

## **Land Use.**

- Waste disposal may only take place within the approved footprint.

## **Economic.**

- No mitigation measures are required due to the lack of any economic impacts.

## **Visual.**

- Dust generation must be controlled by means of water trucks.
- Minimise movement of traffic along public roads as far as reasonably possible.
- A self-sustaining vegetation sward must be established on all disturbed areas.

## **Cultural and Heritage Resources.**

- An archaeologist should immediately be notified should any historical, archaeological, cultural or heritage artefacts be unveiled.

# BASIC ASSESSMENT REPORT

## 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 A (preferred alternative)

No substantial, long term, negative impacts are expected to result from the proposed disposal of inert waste to a SWEP borrow pit (preferred alternative). The generation of dust during the disposal activities is the only negative impact with a moderate rating. All other negative impacts are expected to be of low significance. These include the generation of noise, establishment of alien and invasive species, increase in traffic volumes and the release of greenhouse gasses.

A fair amount of long term, positive impacts are expected to result from the proposed disposal activities. These include an enhancement to the following environmental facets: aesthetic value of the area, soils and land capability, land use, ecology and biodiversity and the visual state of affairs.

The proposed disposal activities are expected to have no impacts on the surface and groundwater, economy and cultural and heritage resources.

### No-go alternative (compulsory)

Compared to the preferred alternative, the no-go alternative has the potential to result in greater negative impacts on the environment. The disposal of material to an alternative disposal facility will result in greater distance travelled which will lead to an increase in the number of construction vehicles on the roads. This in return causes an increase in the greenhouse gas emissions, increase the pressures on the roads, which in return leads to greater degradation of the transport infrastructure and also negatively impacts on road safety. Similar to the preferred alternative, dust generation will prevail on a moderate scale.

The positive impacts associated with the preferred alternative will not be applicable to the no-go alternative. The positive impacts on the aesthetic value of the area, soils and land capability, land use, ecology and biodiversity and the visual state of affairs will be lost by implementing the no-go alternative. The preferred alternative has the potential to enhance the rehabilitation process and therefore support the establishment of natural vegetation as well as species introduced during the rehab process. This will ultimately enrich the long term ecological and aesthetic value of the area.

Similar to the preferred alternative, the no-go alternative is not expected to have no impacts on the surface and groundwater, economy and cultural and heritage resources.

## 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	NO
YES	NO

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:

**It is recommended that the project be authorised on condition that the management and mitigation measures identified in this report and presented in the Environmental Management Programme (EMPr) are implemented. An EMPr is provided in Appendix D.**

### **SECTION F: APPENDIXES**

The following appendixes must be attached as appropriate:

Appendix A: Site plan(s)

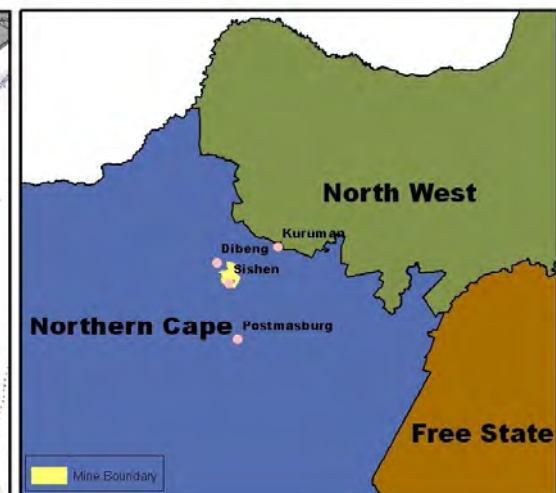
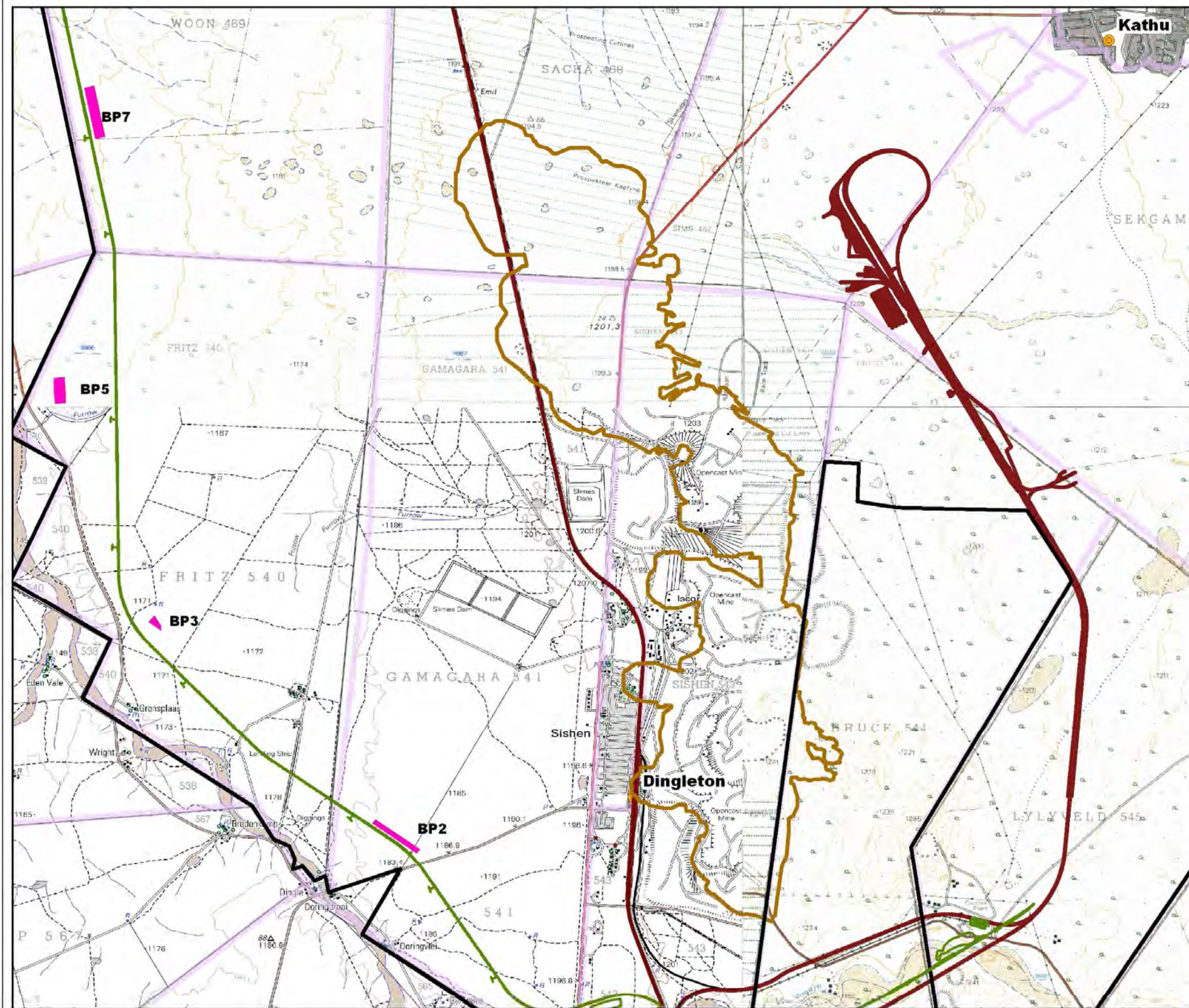
Appendix B: Photographs

Appendix C: Comments and responses report

Appendix D: Environmental Management Programme (EMPr)

Appendix A:  
Site Plans





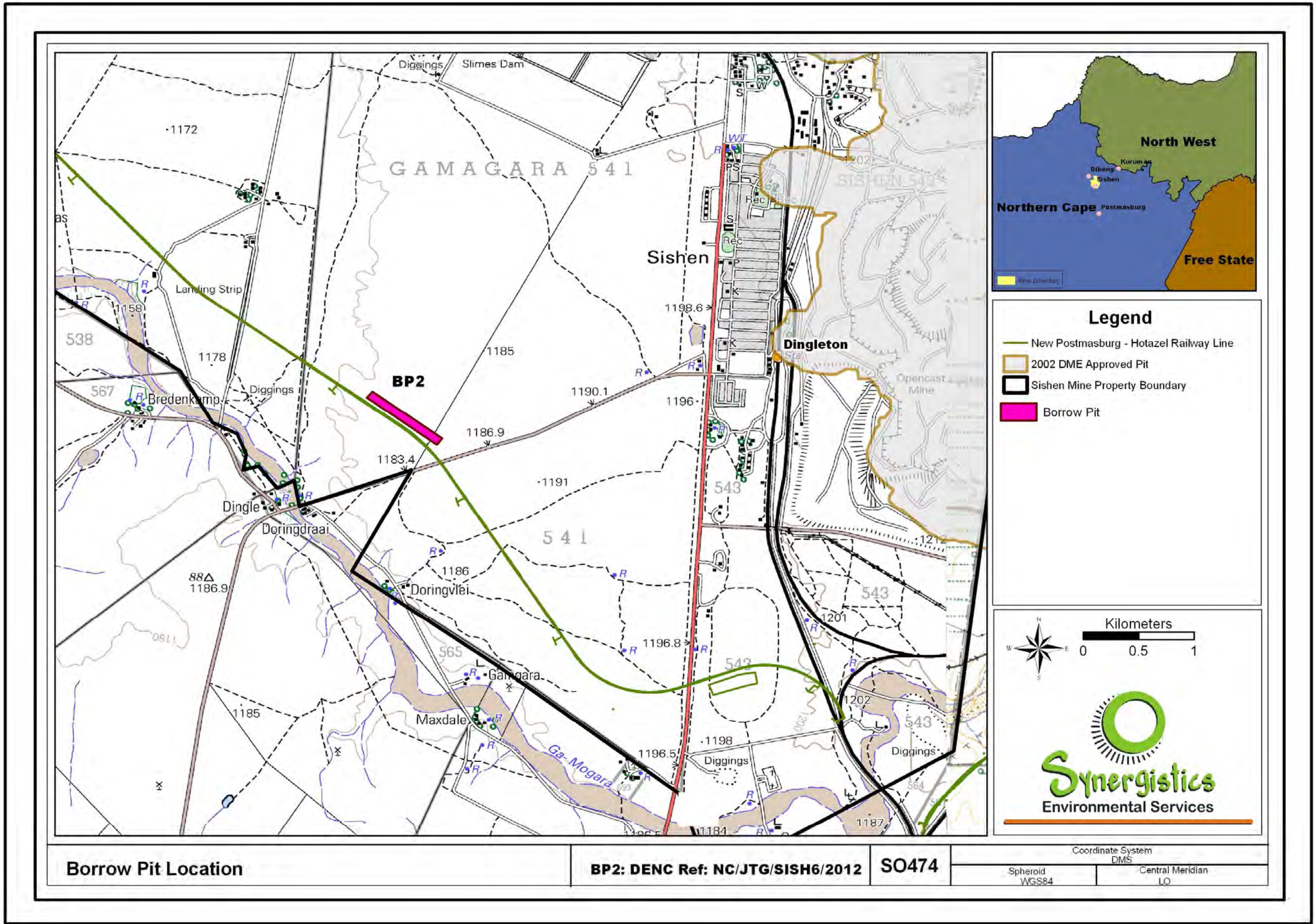
### Legend

- Existing Postmasburg - Hotazel Railway Line
- New Postmasburg - Hotazel Railway Line
- 2002 DME Approved Pit
- Sishen Mine Property Boundary
- ▲ Borrow Pits
- Farm Boundaries

Kilometers  
0 0.5 1 2

**Synergistics**  
Environmental Services

<b>Borrow Pits Location</b>	<b>SO474</b>	Coordinate System DMS Spheroid WGS84      Central Meridian LO
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**Borrow Pit Location**

**BP2: DENC Ref: NC/JTG/SISH6/2012 SO474**

Appendix B:  
Site Photographs



Plate 1: View to the South from the Northern side of the borrow pit



Plate 2: View to the West from the Northern side of the borrow pit



Plate 3: View to the South West from the Northern side of the borrow pit



Plate 4: View to the South East from the Northern side of the borrow pit

Appendix C:  
Comments and Responses Report:  
Public Consultation Documentation



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Project Applicant: **KUMBA IRON ORE COMPANY**

Project: **Basic Assessment for the Disposal of Inert Waste to a SWEP Borrow Pit**

Report Name: **COMMENTS AND RESPONSE REPORT**

Revision No: 00

Report Date: November 2012

Report Number: S0474-WML-CRR-01  
COMMENTS AND RESPONSE-REPORT

Prepared by: Clifford Hallatt

Issued by: Marline Medallie

For Submission to: Northern Cape Department of Environment and Nature Conservation (DENC)

Reference No: NC/JTG/SISH6/2012



## SISHEN IRON ORE COMPANY

# Basic Assessment for the Disposal of Inert Waste to a SWEP Borrow Pit

## COMMENTS AND RESPONSE REPORT

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### LIST OF APPENDICES

#### Appendix A: Public Consultation Documentation

- A1. Interested and Affected Parties Database
- A2. Proof of Newspaper Placements and Site Notices
- A3. Background Information Document
- A4. Waste Management Workshop. 23 February 2012
- A5. Authority Consultation meeting with Northern Cape Department of Environment and Nature Conservation. 10 May 2012
- A6. Copy of the application form submitted to DENC



## SISHEN IRON ORE COMPANY

# Basic Assessment for the Disposal of Inert Waste to a SWEP Borrow Pit

## COMMENTS AND RESPONSE REPORT

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### 1. Public Participation Process

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#### 1.1 Introduction

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The Sishen Iron Ore Company (SIOC) is in the process of relocating linear infrastructure, which currently runs through the Sishen Iron Ore Mine property, through a project known as the Sishen Western Expansion Project (SWEP). The Environmental Impact Assessment (EIA) process for the relocation of infrastructure included a thorough public participation process (PPP). A number of other impact assessments have also been conducted, each with its own PPP.

In September 2012 an application for environmental authorisation for the disposal of inert waste to a SWEP borrow pit was submitted to the Northern Cape Department of Environment and Nature Conservation (DENC) in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and also the Environmental Impact Assessment regulations (GNR 543, published 18 June 2010). The application was acknowledged with reference number NC/JTG/SISH6/2012. (**Error! Reference source not found.6**).

The following opportunities have been provided to interested and affected parties (IAPs) (landowners, local authorities, environmental authorities, as well as all other stakeholders) to provide comments or complaints and to register in order to receive further project information:

- Site notices (poster) were placed at the following locations:
  - The notice board at the Gamagara Local Municipality;
  - Kathu Library;
  - Kathu Shoprite; and
  - At the intersection between the R325 and the Dingleton-Dibeng public roads;
- Press advertisements were also placed in a local (Kathu Gazette) and provincial newspaper (Volksblad).
- The background information document (BID) was distributed to IAP's. This document provides details on the project and relevant processes and legislation.
- All of this was done in order to provide details of the project applicant, the competent authority responsible for the respective application as well as the listed activity(s) identified in terms of the NEMA.

A Draft Basic Assessment Report (BAR) for the relocation of the disposal of inert waste to a SWEP borrow pit has been prepared and will be made available for review from 21 November 2012 to 9 January 2013.

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## **1.2 Identification of Interested and Affected Parties**

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Potential Interested and Affected Parties (IAPs) were identified through networking and the use of the existing SWEF IAP database that has been developed over the years. The existing database included neighbouring landowners, people who participated in previous EIA and BA processes in the area (i.e. the Sishen Expansion Project), and members of Sishen Mine's Environmental Forum. Press advertisements and site posters were used to identify new IAP's (Section 1.5).

A list of all parties that were consulted during the public participation and authority consultation process is provided in Appendix A1.

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## **1.3 Notifications to Interested and Affected Parties**

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Potential IAPs were notified about the project and the public participation process by means of:

- Press advertisements and site notices.
- Individual written notifications (notification letter and BID) to all IAPs (by registered mail).
- Individual written notifications (notification letter and BID) to Gamagara Local Municipality and John Taolo Gaetsewe District Municipality.
- Individual written notifications (notification letter and BID) to all relevant authorities.
- Meeting with the Director of Waste at DENC.

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## **1.4 Notifications to Relevant Authorities**

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The following government departments were notified about the project by mean of individual written notifications (notification letter and BID):

- The Northern Cape Department of Environment and Nature Conservation (DENC) (previously Department of Tourism, Environment and Conservation (DTEC)).
- The National Department of Agriculture.
- The Northern Cape Department of Mineral Resources (previously Department of Minerals and Energy).
- The National and the Northern Cape Department of Water Affairs (DWA), part of the Department of Water and Environmental Affairs (DWEA) (then Department of Water Affairs and Forestry (DWAF)).
- The Northern Cape Department of Agriculture and Land Reform.
- The Northern Cape Department of Roads and Public Works.
- The South African Heritage Resources Agency.
- The National and Northern Cape Department of Agriculture, Forestry and Fisheries (DAFF).
- The Northern Cape Department of Health.
- The Northern Cape Department of Labour.

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## **1.5 Press Advertisements and Site Notices**

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Press advertisements were placed in the following newspapers:

- Volksblad (in English on 11 September 2012).
- Kathu Gazette (in Afrikaans on 8 September 2012).

Site notices (posters) were placed at the following locations on 28 September 2012:

- The notice board at the Gamagara Local Municipality;
- Kathu Library;
- Kathu Shoprite; and
- At the intersection between the R325 and the Dingleton-Dibeng public roads;

Copies of the advertisements and site notices (with photographs of site notice as proof) are included in Appendix A2.

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## **1.6 Background Information Document**

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A BID and cover letter (Appendix A3) was distributed to all IAPs via registered post. The document included a response sheet and a request for written comments within 14 days.

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## **1.7 Registration of Interested and Affected Parties**

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People and/or organisations were provided the opportunity to register as IAPs for the project if they:

- Responded to notification letters and documentation, press advertisements or site posters.
- Contacted Synergistics telephonically, or via fax, E-mail or post.

The following parties were automatically included in the IAP database:

- Owner of land along and adjacent to the proposed disposal site.
- Holders mining or prospecting rights adjacent to the proposed disposal site.
- Own, operate or administrate infrastructure affected by the project.

Despite the in depth public consultation process (notifications, posters, advertisements, BID's etc.) only one person (local farmer) responded and requested to be registered on the project. No comments or queries were received from any authorities or governing bodies.

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# List of Appendices

## Volume 2 (Appendix A: Public Consultation Documentation)

### **Appendix A: Public Consultation Documentation**

- A1. Interested and Affected Parties Database
- A2. Proof of Newspaper Placements and Site Notices
- A3. Background Information Document
- A4. Waste Management Workshop. 23 February 2012
- A5. Authority Consultation meeting with Northern Cape Department of Environment and Nature Conservation. 10 May 2012
- A6. Copy of the application form submitted to DENC

Appendix A1:  
Interested and Affected Parties Database

Surname	Initials	Name	Affiliation	Telephone	Fax	Cellular	Physical Address	City / Town	Postal code	Email Address
Bekker	P.	Pierre	Khumani Mine Manager	053 7238000		083 272 8535	PO Box 503	Kathu	8446	<a href="mailto:pierreb@assmang.co.za">pierreb@assmang.co.za</a>
Booyesen	H. W.		Teacher at Kathu High School	053 723 1561	053 723 3214	084 208 8983	Private Bag X502	Kathu	8446	<a href="mailto:office@hskathu.ncape.school.za">office@hskathu.ncape.school.za</a>
Bosman	L.			076 742 6907	054 332 2971		334 David Street	Upington	8800	
Burger	J. A.	Jan	Oupos / Uitkoms Farms	053 723 1809	-	082 772 1323	PO Box 12	Dibeng	8463	
Burger	J.	Johann	Snr. O. Town Planning	053 723 2261	053 723 2021		Gamagara Municipality. c/o Hendrik van Eck & Frikkie Meyer	Kathu	8446	<a href="mailto:johannb@gamagara.co.za">johannb@gamagara.co.za</a>
Burger	P.		Gamagara Local Municipality, Snr. EHP/ Community Services Manager	053 723 2261 x120	053 723 2021	084 090 6650	Gamagara Municipality. c/o Hendrik van Eck & Frikkie Meyer	Kathu	8446	<a href="mailto:pierreb@gamagara.co.za">pierreb@gamagara.co.za</a>
Coetzee	A.	Attie	Transnet Freight Rail	022 703 3521	022 703 3494	083 453 7686	Private Bag X11	Vredenburg	7380	<a href="mailto:Attie.coetzee@transnet.net">Attie.coetzee@transnet.net</a>
Cornelissen	S.	Stephanie	Wright Farm	053 724 2129	053 724 2129	082 922 4627 / 081 368 0356	PO Box 170	Kathu	8446	<a href="mailto:wright@polka.co.za">wright@polka.co.za</a>
De Jager	L.	Louis	Department of Agriculture	053 313 0568	053 313 1218	082 211 1533	PO Box 124	Postmasburg	8420	<a href="mailto:idejager@ncpg.gov.za">idejager@ncpg.gov.za</a>
De Villiers	A.		Reverend of NG Church Kathu	053 723 4895	086 675 2464	084 679 3274	PO Box 1036	Kathu	8446	<a href="mailto:andre@ngkathu.co.za">andre@ngkathu.co.za</a>
Du Toit	A. J.		Eskom			083 486 2791	PO Box 73	Kuruman	8460	<a href="mailto:attie.dutoit@eskom.co.za">attie.dutoit@eskom.co.za</a>
Fourie	D.	Dawie	Rozenvlei		053 741 1246	083 232 5177	PO Box 221	Hotazel	8490	<a href="mailto:fouriedh@telkomsa.net">fouriedh@telkomsa.net</a>
Fourie	J. M.	Jan	Dundrum Farm	053 791 0454		083 612 2434	PO Box 47	Deben	8463	
Hoffman	A. J.	Adriaan	Maxdale, Dingleton	053 739 2025 /2433	053 739 2402	082 375 1847	PO Box 638	Kathu	8446	
Hoffman	J. E.	Jacob/Jaap	Fouriesville	053 793 197?		082 572 0732	PO Box 823	Kathu	8446	<a href="mailto:jaap.hoffman@KIOLD.COM">jaap.hoffman@KIOLD.COM</a>
Jacobs	G. G.	Gabriel Gerhardus	Mooihoek Farm	053 331 0155 /0240	053 331 0155 / 053 331 0240	082 891 4402	PO Box 101	Olifantshoek	8450	<a href="mailto:ggj@cybertrade.co.za">ggj@cybertrade.co.za</a>
Kalp	M. M.		Rosenvlei / Kromvlei	053 791 0452		079 196 7248	PO Box 300	Deben	8463	
Kotzé	C. H.	Coenraad Hendrik	Erfdeel, Lohathla Farm	053 321 4384	-	073 363 6221	PO Box 41	Postmasburg	8420	<a href="mailto:Jacky.Sterrenberg@kiold.com">Jacky.Sterrenberg@kiold.com</a>
Laubscher	A.		SNR. Admin D.	053 723 2261	053 723 2021		PO Box 1001	Kathu	8446	
Lock	J. P.	Johan	Edenvale Farm	053 724 2008	-	082 820 2322	PO Box 715	Kathu	8446	
Maritz	A.		Curtis Farm	053 723 2029	053 723 2029	082 926 9670	PO Box 1656	Kathu	8446	<a href="mailto:abriem@xfinet.co.za">abriem@xfinet.co.za</a>
Maritz	J. H.		Dingle Farm	053 724 2004	-	083 688 4695	PO Box 18	Olifantshoek	8450	
Markram	A.	Alfred	Moria Boerdery BK / Sishen Ged 24 Farms	053 739 2027 (Sandra)	053 739 2670 (Sandra)	083 998 4001 / 083 998 4030 (Sandra)	PO Box 1181	Kathu	8446	<a href="mailto:sandra.markram@angloamerican.com">sandra.markram@angloamerican.com</a>
Meggersee	D.	Dereck	Chief Administrative Official Transnet Freight Rail Ops. Maintenance	053-8383189	053-8383110		PO Box 10201	Kimberley	8315	<a href="mailto:dereck.meggersee@Transnet.net">dereck.meggersee@Transnet.net</a>

Surname	Initials	Name	Affiliation	Telephone	Fax	Cellular	Physical Address	City / Town	Postal code	Email Address
			(Infra)							
Olivier	B. M.		Manager Technical Services, Kgalagadi District Municipality	053 712 1001	053 712 0548	082 784 0261	PO Box 1480	Kuruman	8460	<a href="mailto:beno@webafrica.org.za">beno@webafrica.org.za</a>
Poolman	G.	George	Portion 7 of the farm Gamagara 541 (Doringdraai)	053 724 2301		073 899 5946	PO Box 1135	Kathu	8446	
Posthumus	A.						PO Box 1490	Kathu	8446	
Reitz	K.	Karel & Tarina	Bees-Aar Farm							
Roos	C.	Catrina	Classens	053 724 2358			PO Box 253	Dingleton	8445	
Schoeman	H. J.	Hendrik	Transnet Freight Rail Depot Engineer	053 838 3399	053 838 3211	083 283 7018	PO Box 10201	Kimberley	8315	<a href="mailto:hennie.schoeman@transnet.net">hennie.schoeman@transnet.net</a>
Scholtz	I.	Ian	Transnet Engineering Technician	053 838 3275		083 567 0406	PO Box 10201	Kimberley	8315	<a href="mailto:ian.scholtz@transnet.net">ian.scholtz@transnet.net</a>
Smit	N.	Nico	Member of NG Church Kathu		053 723 1071		PO Box 4	Kathu	8446	<a href="mailto:nico@sanyatibb.co.za">nico@sanyatibb.co.za</a>
Sprong	A.	André	Transnet Technical Support Manager	053 838 3468	053 838 3245	083 287 0156	PO Box 10201	Kimberley	8315	<a href="mailto:andre.sprong@transnet.net">andre.sprong@transnet.net</a>
Van der Linde	J. A.	Tops	Farmer			082 337 8722	PO Box 96	Kathu	8446	<a href="mailto:topsvdl@lantic.net">topsvdl@lantic.net</a>
Van der Merwe	H. J.	Hendrik	Limebank Farm	053 791 0311	053 791 0323 / 053 723 1825	079 890 0715	PO Box 7	Dibeng	8463	
Van der Westhuizen (Attention)	G. A.	Gerrie	Kgalagadi District Municipal Assistant Manager	053 712 1001 x250	053 712 0548	082 459 9254	PO Box 1480	Kuruman	8460	<a href="mailto:gerrievdw@kgalagadi.gov.za">gerrievdw@kgalagadi.gov.za</a>
Van Jonkers	A. M.			053 724		078 273 5542	PO Box 134	Dingleton	8445	
Van Schalkwyk	S.	Schalk	Leraar NG Kerk / Dorp	053 723 1743	053 723 1071	084 673 1075	PO Box 4	Kathu	8445	<a href="mailto:schalk@ngkathu.co.za">schalk@ngkathu.co.za</a> / <a href="mailto:schalkvs@lantic.net">schalkvs@lantic.net</a>
Van Zyl	A.	Andre	Lanham Farm	053 724 2000	053 724 2000	082 922 7989	PO Box 712	Kathu	8446	<a href="mailto:andre.lanham@gmail.com">andre.lanham@gmail.com</a>
Venter	L.	Leon		-	-	082 380 1897	PO Box 1620	Kathu	8446	<a href="mailto:leon.venter@angloamerican.com">leon.venter@angloamerican.com</a>
Viljoen	J. F.	Fred	Bishopswood Farm	053 723 2584		083 304 1144	PO Box 800	Kathu	8446	<a href="mailto:fred.viljoen@angloamerican.com">fred.viljoen@angloamerican.com</a>
Vorster	H.	Harm	National Department of Agriculture	053 831 1793	053 832 3101		Private bag X5018	Kimberley	8300	
Abrahams	A.	Abe	DWEA	053 830 8800 053 830 8802 053 831 3530	053 831 5682 / 053 831 4534	0828836741	PO Box 6101	Kimberley	8300	<a href="mailto:abrahamsa@dwaf.gov.za">abrahamsa@dwaf.gov.za</a>
Carlson	R.		Teacher		0537242259	072 987 4312	PO Box 43	Dingleton	8445	

Surname	Initials	Name	Affiliation	Telephone	Fax	Cellular	Physical Address	City / Town	Postal code	Email Address
Fiff	S.	Sam	Western Region Environmental Manager				PO Box 255	Bloemfontein	9300	
Gaobusiwe	S. B.		John Taolo Gaetsiwe /Kgalagadi District Municipal Mayor	053 712 1001	053 712 2502		PO Box 1480	Kuruman	8460	
Joachim	C.		Gamagara Local Municipality, Municipal Manager	053 723 2261	053 723 2021		PO Box 1001	Kathu	8446	<a href="mailto:kathu1@hotmail.com">kathu1@hotmail.com</a> / <a href="mailto:CorneliusJ@Gamagara.co.za">CorneliusJ@Gamagara.co.za</a>
Mabudi	K. J.		Community Services Manager, Moshaweng Local Municipality	053 773 9300	053 773 9350	079 376 4058	Private Bag X117	Mothibistad	8474	<a href="mailto:kgomotso.mabudi@lgn.net">kgomotso.mabudi@lgn.net</a>
Madipa	A.	Ace		053 773 9300		072 651 0135				
Manong	M.	Marcia / Mashia	AncRA, Director	053 712 0791	053 712 2265		PO Box 361	Kuruman	8460	<a href="mailto:ancra@intekom.co.za">ancra@intekom.co.za</a>
Manong	V.		Kuruman District Health Office, District Manager	053 712 0775	053 712 0656		Private Bag X 910	Kuruman	8460	<a href="mailto:vmanong@kur.ncape.gov.za">vmanong@kur.ncape.gov.za</a>
Mapinga	T.	Tebogo	Department of Environmental Affairs	012 310 1805	012 320 7539		Private Bag X447	Pretoria	0001	<a href="mailto:tmapinga@environment.gov.za">tmapinga@environment.gov.za</a>
Mashego	L.	Lillian	Regional Manager, Department of Labour	053 313 0641 /2	053 313 1569	082 451 7787	PO Box 774	Postmasburg	8420	<a href="mailto:lillian.mashego@labourgov.za">lillian.mashego@labourgov.za</a>
Mbanjwa	S.G.	Sibonelo	Northern Cape Department of Environment and Nature Conservation (DENC)	053 807 7430	053 831 3530		Private Bag X6102	Kimberley	8300	
Moerane	R	Rebone	Northern Cape Department of Agriculture and Land Reform	053-8389100/102	053 832 4328		162 George Street	Kimberley	8300	
Mmoiemang	M. K.		Kgalagadi District Municipal Manager	053 712 1001	053 712 2502		PO Box 1480	Kuruman	8460	<a href="mailto:kaldc@mweb.co.za">kaldc@mweb.co.za</a>
Mutyorauta	J.J.		Northern Cape Department of Environment and Nature Conservation (DENC)	053 807 7430	053 831 3530		Private Bag X6102	Kimberley	8300	
Mzila	Z.	Zinnle	Department of Labour	053 712 3870	053 712 3953	083 635 2301	PO Box 2467	Kuruman	8460	<a href="mailto:zinnle.mzila@labour.gov.za">zinnle.mzila@labour.gov.za</a>
Ndou	L. W.	Livhuwani Wilson	Transnet Freight Rail, Environmental Specialist	051 408 2939	051 408 2018	083 278 9499	PO Box 255	Bloemfontein	9300	<a href="mailto:Livhuwani.ndou@transnet.net">Livhuwani.ndou@transnet.net</a>
Rakoi	M. J.	James	Gamagara Local Municipality Mayor	053 723 2261	053 723 2021		PO Box 1001	Kathu	8446	<a href="mailto:mayorg@gamagara.co.za">mayorg@gamagara.co.za</a>
Ravhugoni	N.	Ntsundeni	Department of Minerals	053 8300803	053 832 5631		29 to 31 Currey street Liberty Corner	Kimberley	8460	
Sechudi	C.		EHO Kgalagadi (Kuruman)			072 589 1301	PO Box 1336	Kuruman	8460	
Sethole	D. M.		Environmental Health Practitioner Department of Health	053 773 9500	053 773 1514	073 765 3162	PO Box 1336	Kuruman	8460	



Surname	Initials	Name	Affiliation	Telephone	Fax	Cellular	Physical Address	City / Town	Postal code	Email Address
Thupe	G.		Chief Engineering plan & design for the Department of Transport, Roads & Public Works	053 861 9683	053 881 9673		Private Bag X5064	Kimberley	8300	<a href="mailto:gthupe@dre.ncape.gov.za">gthupe@dre.ncape.gov.za</a>
Townsend	A.	Adelaide	Department of Labour	053 313 0641 /2	053 313 1569	083 358 8272	PO Box 774	Postmasburg	8420	<a href="mailto:adelaide.townsend@labour.gov.za">adelaide.townsend@labour.gov.za</a>

Appendix A2:  
Proof of Newspaper Placements and  
Site Notices

## ENVIRONMENTAL BASIC ASSESSMENTS

### Sishen Western Expansion Project

The Sishen Iron Ore Company (SIOC) is in the process of relocating linear infrastructure, which currently runs through the middle of their property at the Sishen Iron Ore Mine (Sishen Mine) to the perimeter of their property, through a project known as the Sishen Western Expansion Project (SWEP). The SIOC maintains that the relocation is necessary due to the continued progression of the opencast mine pit in a westerly and south-westerly direction. The infrastructure earmarked for relocation are not all mining-related and are owned and operated by a variety of stakeholders including Eskom, Transnet Limited, Sedibeng Water Board, SIOC and the Northern Cape Department of Roads and Public Works. SIOC has all the necessary environmental approvals in place and construction of the new infrastructure is underway, except for the relocation of the 66 kV power line and the Bruce sub-station.

#### Relocation of a 66kV Power line and the Bruce Sub-station

##### DENC Reference: NC/BA/JTG/SIS/2012, NCP/EIA/0000129/2012

The SIOC proposes to relocate a section of the 66kV power line and the Bruce sub-station currently located on the western side and to the south of Sishen Mine respectively, to a position within the Sishen Mine property boundary and mining rights area. This power line and sub-station supplies power to the Sishen mining operations and are owned and operated by the SIOC.

An environmental basic assessment (BA) is required in terms of the National Environmental Management Act (No 107 of 1998) and the Environmental Impact Assessment regulations (Government Notice Regulation (GNR) 543 to 546, published 18 June 2010). Notice is hereby given that the SIOC will act as applicant in the submission of the BA for the relocation of a 66kV power line and the Bruce sub-station to the Northern Cape Department of Environment and Nature Conservation (DENC) as the competent authority

#### Inert Waste Disposal to the SWEP Borrow Pits

##### DENC Reference: NC/JTG/SISH3/2012

Construction aggregates have been sourced by the SIOC from various SWEP borrow pits located within the Sishen Mine property in order to construct the relocated infrastructure. The existing services in the old infrastructure corridor now require to be decommissioned and demolished. The demolition of these services will generate significant volumes of materials which need to be managed in a responsible and compliant manner. SIOC has proposed that the inert waste and clean building rubble be disposed to four of the SWEP borrow pits. This material can be utilised to backfill portions of the borrow pits prior to rehabilitation. A maximum of 25 000 tonnes of inert waste will be disposed per borrow pit.

A BA is required in terms of the Waste Management Activities (GNR 718, published 3 July 2009) under the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and also the Environmental Impact Assessment regulations (GNR 543, published 18 June 2010). Notice is hereby given that SIOC will act as applicant in the submission of four separate BA's for the disposal of general waste into borrow pits to the DENC as the competent authority.

**Please respond and direct queries to the person below. You are invited to register as an interested or affected party in order to receive further information. Please specify which of the above projects you would like to register for and require further information on.**

#### Contact Details:

Clifford Hallatt

[clifford@synergistics.co.za](mailto:clifford@synergistics.co.za)

P O Box 1822, Rivonia, 2128

Tel: (011) 807 8225

Fax: (011) 807 8226



**roudiens van Ciela (gebore Streicher), in ewe van Bloemfontein, vind plaas uit die NG Kerk Heuwelkruin, op Woensdag 12 September 2012 om 11:00.**

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## **BASIESE OMGEWINGS ASSESSERING**

### **Sishen Westelike Uitbreidingsprojek**

Die Sishen Ystererts Maatskappy (SIOC) is in die proses om liniêre infrastruktuur te hervestig wat huidiglik deur die middel van hul eiendom by die Sishen Ystererts Myn (Sishen Myn) strek na die grens van hul eiendom deur middel van 'n projek wat bekend staan as die Sishen Westelike Uitbreidingsprojek (SWEP). Die SIOC beweer dat die hervestiging nodig is a.g.v. die voortgesette vordering van die oopgroefmyn put in 'n westelike en suid-westelike rigting. Die infrastruktuur wat hervestig moet word is nie almal aan die myn verwant nie en word besit en bedryf deur 'n verskeidenheid van rolspelers soos Eskom, Transnet Beperk, Sedibeng Water Raad, SIOC en die Noord-Kaapse Departement van Paaie en Openbare Werke. SIOC het al die nodige omgewingsgoedkeurings in plek en die bou van die nuwe infrastruktuur is reeds onderweg, behalwe vir die hervestiging van die 66 kV kraglyn en die Bruce sub-stasie.

### **Hervestiging van 'n 66kV kraglyn en die Bruce Sub-stasie**

#### **DENC Verwysing: NC/BA/JTG/SIS/2012, NCP/EIA/0000129/2012**

Die SIOC is van voorneme om 'n gedeelte van die 66kV kraglyn en die Bruce sub-stasie, onderskeidelik geleë aan die westelike en suidelike kant van Sishen Myn, te hervestig na 'n ligging binne die Sishen Myn se eiendom en mynreg area. Hierdie kraglyn en sub-stasie verskaf krag aan die Sishen Myn se bedrywighede en word besit en bestuur deur die SIOC.

'n Basiese Omgewings Assessering (BOA) word vereis in terme van die Nasionale Wet op Omgewingsbestuur (No 107 van 1998) en die Omgewingsimpakevaluering regulasies (Regeringskennisgewing Regulasies (GNR) 543 - 546, gepubliseer op 18 Junie, 2010). Kennis word hiermee gegee dat die SIOC sal optree as die aansoeker in die indiening van die BOA vir die hervestiging van 'n 66kV kraglyn en die Bruce sub-stasie aan die Noord-Kaapse Departement van Omgewing en Natuurbewaring (DENC) as die bevoegde owerheid.

### **Inerte Afval Beskikking aan die SWEP Leengroewe**

#### **DENC Verwysing: NC/JTG/SISH3/2012**

Die SIOC het konstruksie materiaal vir die bou van die hervestigde infrastruktuur verkry vanaf verskeie SWEP leengroewe wat geleë is binne die Sishen Myn eiendom. Die bestaande dienste in die ou infrastruktuur moet buite werking gestel en gesloop word. Die sloping van hierdie dienste sal groot volumes materiaal genereer wat in 'n verantwoordelike en wettige wyse bestuur moet word. SIOC het voorgestel dat die inerte afval en skoon bourommel tot vier van die SWEP leengroewe weggedoen word. Hierdie materiaal kan aangewend word om die gedeeltes van die leengroewe op te vul voor rehabilitasie. 'n Maksimum van 25 000 ton inerte afval gaan weggedoen word per leengroef.

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#### **Kontak Besonderhede:**

Clifford Hallatt

[clifford@synergistics.co.za](mailto:clifford@synergistics.co.za)

Posbus 1822, Rivonia, 2128

Tel: (011) 807 8225

Faks: (011) 807 8226





**Kalagadi Manganese Electrical Engineer Mr Bruce McLoughlin and Human Resources Ms Mokgadi Kgooa conducting interviews at the district municipality's premises.**

**A**ugust 27-29, 2012 the Kalagadi manganese mine took a bold step by absorbing graduate youths from the district for both bursaries and learnerships. The mine has vividly declared that as part of its social labour project it will recruit the local youths with more emphasis on women. According to the mine chairperson Mrs Daphne Mashile the mine is giving priority to young graduates especially those with

company is aiming at creating an exciting opportunity to the graduates so that they can gain the requisite experience. As a result the company was looking for the raw graduates who never worked before. Initially the company was targeting ten engineering graduates and a minimum of twenty five artisan internships who will undergo a three-year program. The two officials said that the company wants to make the program an annual one and is prioritising women in the project on the general understanding that empowering women is tantamount to giving life to all and sundry. The Kalagadi Manganese management candidly said that the mine is inextricable, part of the community and therefore its commitment must be beyond reproach in as far as developing the locals. The response from aspirants-cum-applicants was tremendous after being facilitated by the department of labour through the local radio station (KURARA fm) announced the opportunities the company was offering. Interviews were conducted at the district municipal offices courtesy of the municipal manager.



**Nelia Pretorius**



**Finance ladies serving Sishen Mine: right: Mariaan Wait, Amanda de Greeff, Lamprecht. Absent: Marina Claassens**

**W**hen Sishen Mine started operations in 1947, the number of women who worked for the mine was very small. In spite of that, the mine has managed to retain female employees for more than twenty years. Seven female employees of Sishen Mine's Finance department worked together for more than twenty years. Mariaan Wait (Accounting Assistant), Amanda de Greeff (Assistant Accountant), Annatjie Slabbert (Debtors Clerk), Pienaar (Telephonist), Magda Larner (Debtors Clerk), Marina Claassens (Accountant) and Rina Drotsky (Financial Accounting). The Finance ladies are a very close knit team that care and respects each other. Throughout their time at the mine they have seen the ownership change from Iscor to Kumba Ironworks and now to Anglo American's Kumba Iron Ore. They have also witnessed the change in technology. Commenting on why they have worked for the mine for so long they said they have never experienced any form of discrimination and the mine offers u

## **BASIESE OMGEWINGS ASSESSERING Sishen Westelike Uitbreidingsprojek**

Die Sishen Ystererts Maatskappy (SIOC) is in die proses om liniere infrastruktuur te hervestig wat huidige deur die middel van hul eiendom by die Sishen Ystererts Myn (Sishen Myn) strek na die grens van hul eiendom deur middel van 'n projek wat bekend staan as die Sishen Westelike Uitbreidingsprojek (SWEP). Die SIOC beweer dat die hervestiging nodig is a.g.v. die voortgesette vordering van die oopgroefmyn put in 'n westelike en suid-westelike rigting. Die infrastruktuur wat hervestig moet word is nie almal aan die myn verwant nie en word besit en bedryf deur 'n verskeidenheid van rolspelers soos Eskom, Transnet Beperk, Sedibeng Water Raad, SIOC en die Noord-Kaapse Departement van Paaie en Openbare Werke. SIOC het al die nodige omgewingsgoedkeuring in plek en die bou van die nuwe infrastruktuur is reeds onderweg, behalwe vir die hervestiging van die 66 kV kraglyn en die Bruce sub-stasie.

### **Hervestiging van 'n 66kV kraglyn en die Bruce Sub-stasie**

**DENC Verwysing: NC/BA/JTG/SIS/2012, NCP/EIA/0000129/2012**

Die SIOC is van voorneme om 'n gedeelte van die 66kV kraglyn en die Bruce sub-stasie, onderskeidelik geleë aan die westelike en suidelike kant van Sishen Myn, te hervestig na 'n ligging binne die Sishen Myn se eiendom en mynreg area. Hierdie kraglyn en sub-stasie verskaf krag aan die Sishen Myn se bedrywighede en word besit en bestuur deur die SIOC.

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### **Inerte Afval Beskikking aan die SWEP Leengroewe**

**DENC Verwysing: NC/JTG/SISH3/2012**

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Posbus 1822, Rivonia, 2128  
Tel: (011) 807 8225  
Faks: (011) 807 8226



## **Khara Hais Win**



**Die Eiland resort in Upington.**

**A** great highlight of the launch of Green Week was the Arbour City Award introduced to promote the green cities and towns in the 283 local and metropolitan municipalities across the country. This award is given to cities and towns that go the extra mile to green areas under their jurisdiction. The Khara Hais local municipality, which governs the Eiland resort in the Northern Cape, won the award in the municipal category. They received a R100 000 cash prize, trophy and certificate. Khara Hais council speaker, Thomas Basson, said: "To us this is a very special award because we are leaders in the area of greenin

# ENVIRONMENTAL BASIC ASSESSMENTS

## Sishen Western Expansion Project

The Sishen Iron Ore Company (SIOC) is in the process of relocating linear infrastructure, which currently runs through the middle of their property at the Sishen Iron Ore Mine (Sishen Mine) to the perimeter of their property, through a project known as the Sishen Western Expansion Project (SWEP). The SIOC maintains that the relocation is necessary due to the continued progression of the opencast mine pit in a westerly and south-westerly direction. The infrastructure earmarked for relocation are not all mining-related and are owned and operated by a variety of stakeholders including Eskom, Transnet Limited, Sedibeng Water Board, SIOC and the Northern Cape Department of Roads and Public Works. SIOC has all the necessary environmental approvals in place and construction of the new infrastructure is underway, except for the relocation of the 66 kV power line and the Bruce sub-station.

### Relocation of a 66kV Power line and the Bruce Sub-station DENC Reference: NC/BA/JTG/SIS/2012, NCP/EIA/0000129/2012

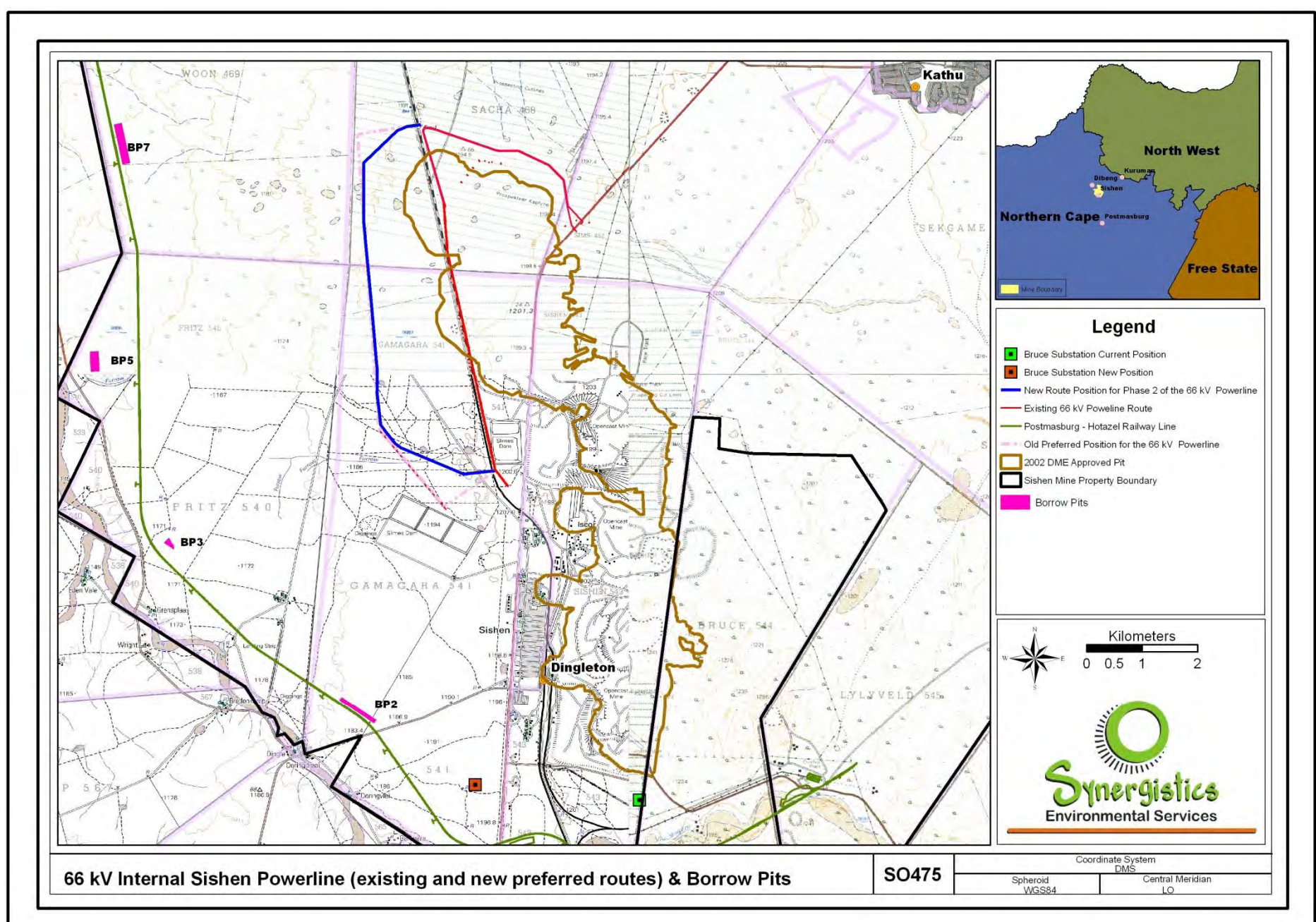
The SIOC proposes to relocate a section of the 66kV power line and the Bruce sub-station currently located on the western side and to the south of Sishen Mine respectively, to a position within the Sishen Mine property boundary and mining rights area. This power line and sub-station supplies power to the Sishen mining operations and are owned and operated by the SIOC.

An environmental basic assessment (BA) is required in terms of the National Environmental Management Act (No 107 of 1998) and the Environmental Impact Assessment regulations (Government Notice Regulation (GNR) 543 to 546, published 18 June 2010). Notice is hereby given that the SIOC will act as applicant in the submission of the BA for the relocation of a 66kV power line and the Bruce sub-station to the Northern Cape Department of Environment and Nature Conservation (DENC) as the competent authority.

### Inert Waste Disposal to the SWEP Borrow Pits DENC Reference: NC/JTG/SISH3/2012

Construction aggregates have been sourced by the SIOC from various SWEP borrow pits located within the Sishen Mine property in order to construct the relocated infrastructure. The existing services in the old infrastructure corridor now require to be decommissioned and demolished. The demolition of these services will generate significant volumes of materials which need to be managed in a responsible and compliant manner. SIOC has proposed that the inert waste and clean building rubble be disposed to four of the SWEP borrow pits. This material can be utilised to backfill portions of the borrow pits prior to rehabilitation. A maximum of 25 000 tonnes of inert waste will be disposed per borrow pit.

A BA is required in terms of the Waste Management Activities (GNR 718, published 3 July 2009) under the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and also the Environmental Impact Assessment regulations (GNR 543, published 18 June 2010). Notice is hereby given that SIOC will act as applicant in the submission of four separate BA's for the disposal of general waste into borrow pits to the DENC as the competent authority.



Please respond and direct queries to the person below. You are invited to register as an interested or affected party in order to receive further information. Please specify which of the above projects you would like to register for and require further information on.

### Contact Details:

Clifford Hallatt  
clifford@synergistics.co.za  
P O Box 1822, Rivonia, 2128  
Tel: (011) 807 8225  
Fax: (011) 807 8226



# BASIESE OMGEWINGS ASSESSERING

## Sishen Westelike Uitbreidingsprojek

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### Hervestiging van 'n 66kV kraglyn en die Bruce Sub-stasie DENC Verwysing: NC/BA/JTG/SIS/2012, NCP/EIA/0000129/2012

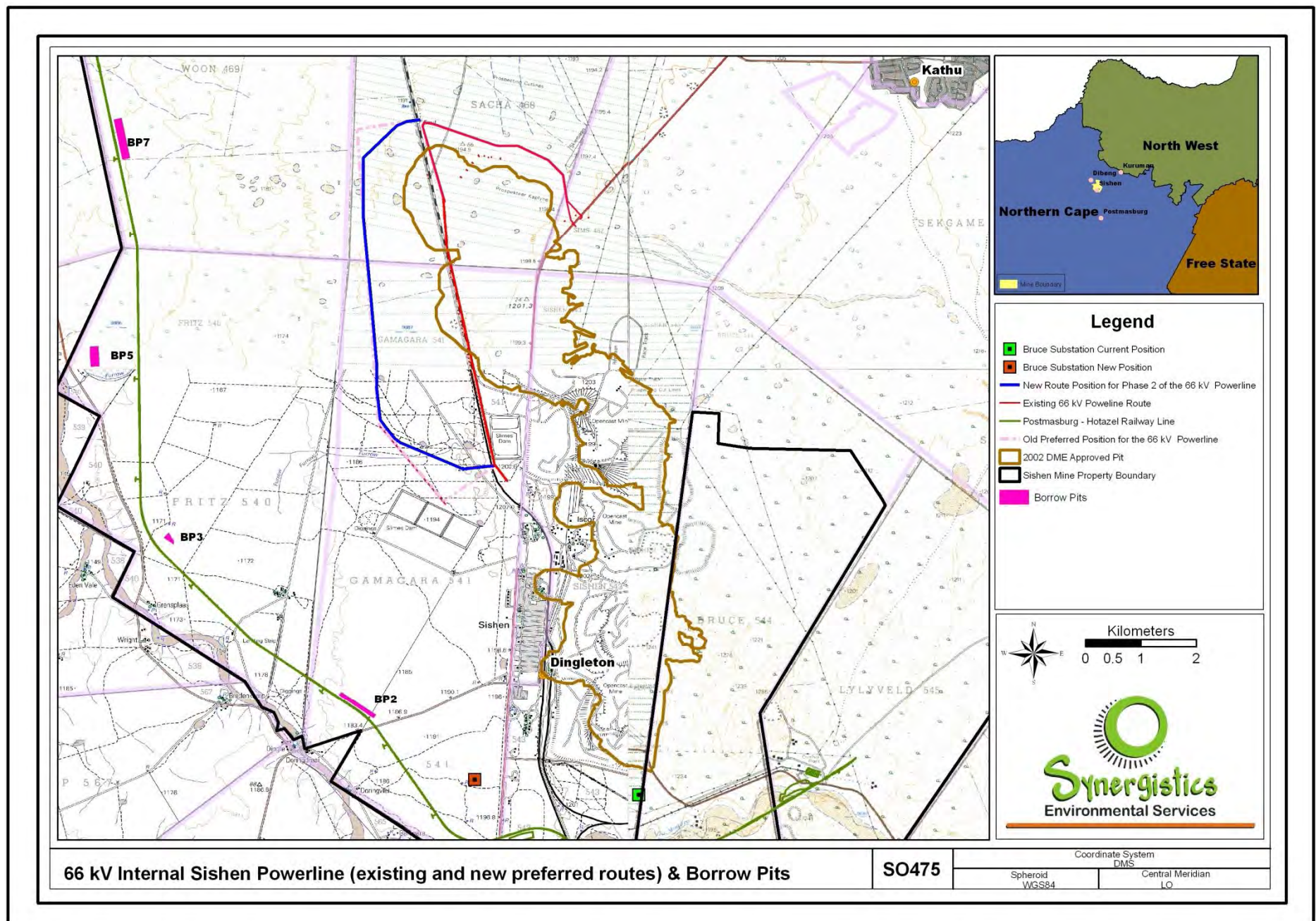
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### Inerte Afval Beskikking aan die SWEP Leengroewe DENC Verwysing: NC/JTG/SISH3/2012

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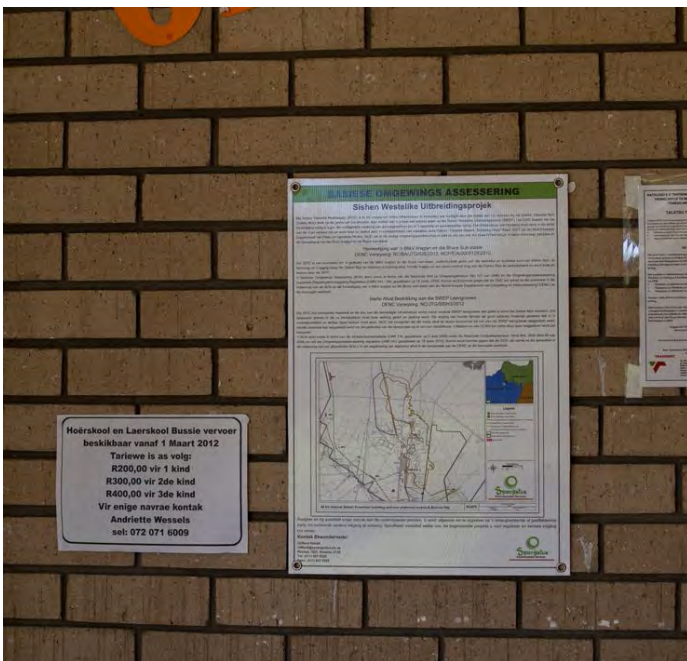
**Notice Board locations:**



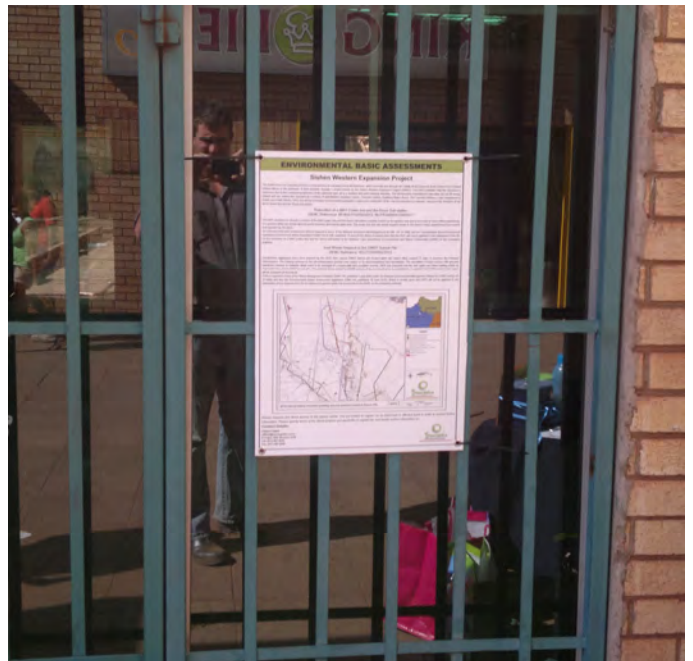
**Plate 1: Dingleton-Dibeng public road**



**Plate 2: Gamagara Municipality**



**Plate 3: Kathu Library**



**Plate 4: Shoprite in Kathu**

Appendix A3:  
Background Information Document



Date: 14-09-2012

Our Ref: SO474

**Attention:** Interested and Affected Parties

**Johannesburg:** Tel: 011 807 8225 Fax: 011 807 8226  
PO Box 1822, Rivonia, 2128  
64 Wessels Road, Rivonia

**KwaZulu Natal:** Tel/Fax: 033 343 5826  
2 Wattle Grove, Hilton, 3201

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Fax: +264 (0)88 647 501  
PO Box 4821, Swakopmund

Dear Mr / Ms

**NOTIFICATION OF ENVIRONMENTAL BASIC ASSESSMENTS**  
**Sishen Western Expansion Project**

The Sishen Iron Ore Company (SIOC) is in the process of relocating linear infrastructure, which currently runs through the middle of their property at the Sishen Iron Ore Mine (Sishen Mine) to the perimeter of their property, through a project known as the Sishen Western Expansion Project (SWEP). The SIOC maintains that the relocation is necessary due to the continued progression of the opencast mine pit in a westerly and south-westerly direction. The infrastructure earmarked for relocation are not all mining-related and are owned and operated by a variety of stakeholders including Eskom, Transnet Limited, Sedibeng Water Board, SIOC and the Northern Cape Department of Roads and Public Works. SIOC has all the necessary environmental approvals (DEA Ref: 12/12/20/1436 and DENC Ref: NC/BA/JTG/GAM/SIS2/2012) in place and construction of the new infrastructure is underway, except for the relocation of the 66 kV power line and the Bruce sub-station.

Notification is hereby given that the SIOC is applying for additional environmental authorisations. All the applications will be submitted to the Northern Cape Department of Environment and Nature Conservation (DENC) as the competent authority. Details to follow:

Relocation of a 66kV Power line and the Bruce Sub-station

DENC Reference: NC/BA/JTG/SIS/2012, NCP/EIA/0000129/2012

The SIOC proposes to relocate a section of the 66kV power line and the Bruce sub-station currently located on the western side and to the south of Sishen Mine respectively, to a position within the Sishen Mine property boundary and mining rights area. This power line and sub-station supplies power to the Sishen mining operations and are owned and operated by the SIOC.

An environmental basic assessment (BA) is required in terms of the National Environmental Management Act (No 107 of 1998) and the Environmental Impact Assessment regulations (Government Notice Regulation (GNR) 543 to 546, published 18 June 2010).

**Working Together**

Directors: KC Fairley (Managing), MG Hemming & M Medallie  
Synergistics Environmental Services (Pty) Ltd - South Africa  
Registered No. 2003/030216/07

Directors: KC Fairley & MG Hemming  
Synergistics Environmental Services (Pty) Ltd - Namibia  
Registered No. 2003/782

## Inert Waste Disposal to the SWEP Borrow Pits

DENC References: NC/JTG/SISH3/2012, NC/JTG/SISH4/2012, NC/JTG/SISH5/2012 and NC/JTG/SISH6/2012

Construction aggregates have been sourced by the SIOC from various SWEP borrow pits located within the Sishen Mine property in order to construct the relocated infrastructure. The existing services in the old infrastructure corridor now require to be decommissioned and demolished. The demolition of these services will generate significant volumes of materials which need to be managed in a responsible and compliant manner. SIOC has proposed that the inert waste and clean building rubble be disposed to four of the SWEP borrow pits. This material can be utilised to backfill portions of the borrow pits prior to rehabilitation. A maximum of 25 000 tonnes of inert waste will be disposed per borrow pit.

Four separate BA's are required in terms of the Waste Management Activities (GNR 718, published 3 July 2009) under the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and also the Environmental Impact Assessment regulations (GNR 543, published 18 June 2010).

In accordance with the EIA Regulations, the Draft BAR's will be submitted to the DENC. At the same time it will be made available for review by the public, relevant organs of state and other government departments for a period of 40 days.

The public review period will be at the **end of October 2013**. Further correspondence will provide specific review dates. Thereafter the reports will be updated and resubmitted to the registered interested and affected parties (IAP's) and to the DENC as the Final BAR's. The reports will be available for review at the following locations:

PRINTED COPIES AT PUBLIC PLACES	
Kathu Library	
Sishen Mine, Security Office at Main Entrance to the Mine	
Kumba Office, Town of Kathu	
Construction Office of the Sishen Western Expansion Project (SWEP)	Mr Rudi Pothas 053 7393887
ELECTRONIC COPIES	
Synergistics website	<a href="http://www.synergistics.co.za">www.synergistics.co.za</a>
On request via e-mail from Synergistics Environmental Services	Mr Clifford Hallatt Tel: 011 807 8225, Fax: 011 807 8226, or send e-mail request to <a href="mailto:Clifford@synergistics.co.za">Clifford@synergistics.co.za</a> , or complete the form enclosed in the BID.

You are requested to comment on the Draft BAR's in any of the following ways:

- Completing the project specific comment sheet enclosed;
- Writing a letter, or producing additional written submissions; or
- Sending an e-mail or phoning the public participation office.



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Registered No. 2003/782

Please complete and return the attached response sheet to Synergistics Environmental Services to indicate your interest in receiving further information regarding the BA's as the studies progress and to register as an I&AP. You are also welcome to contact Synergistics telephonically on 011 807 8225 for any technical and BA related queries. Please specify which of the above projects you would like to register for and require further information on.

Your input and feedback is highly valued.

Yours sincerely



**Marline Medallie**

M.Sc Botany (Molecular Systematics)

Director

Working Together

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Synergistics Environmental Services (Pty) Ltd – South Africa  
Registered No. 2003/030216/07

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Registered No. 2003/782



## Background Information Document

### NOTICE OF ENVIRONMENTAL BASIC ASSESSMENTS: RELOCATION OF A 66KV POWER LINE AND THE BRUCE SUB-STATION & INERT WASTE DISPOSAL TO THE SWEP BORROW PITS

This Background Information Document (BID) provides Interested and Affected Parties (I&AP) with information on the proposed projects and invites them to participate in the public consultation process of the Environmental Basic Assessment (BA) processes.

You are invited to register as an I&AP for the proposed projects at the Sishen Iron Ore Mine, near Kathu, Northern Cape.

You are invited to raise concerns and ask questions about these projects. Please complete and return to Synergistics Environmental Services within 14 days. There will be additional opportunities in the future for you to participate and provide comments.

**Please complete the project specific registration / comment sheet and send to:**

**Clifford Hallatt**  
Synergistics Environmental Services

Tel: 011 807 8225  
Fax: 011 807 8226  
Post: P.O. Box 1822, Rivonia 2128  
Email: [clifford@synergistics.co.za](mailto:clifford@synergistics.co.za)



### Environmental Basic Assessments:

- Relocation of a 66kV Power line and the Bruce Sub-station. (DENC Ref: NC/BA/JTG/SIS/2012, NCP/EIA/0000129/2012)
- Inert Waste Disposal to the SWEP Borrow Pits. (DENC Ref: NC/JTG/SISH3/2012, NC/JTG/SISH4/2012, NC/JTG/SISH5/2012 and NC/JTG/SISH6/2012)

Sishen Iron Ore Mine (Sishen Mine, owned by the Sishen Iron Ore Company (SIOC), is one of the largest open pit mines in the world. It is situated in the north-eastern part of the Northern Cape Province, within the John Taolo Gaetsewe District Municipality and the Gamagara Local Municipality. It is located ~280 km northwest of Kimberley along the N14 national road between Vryburg and Upington. The towns in close proximity to Sishen Mine are Kathu (directly north-east), Dingleton (directly south-west), Sesheng (directly north) and Dibeng (~21km north-west).

### PURPOSE OF DOCUMENT

This document forms part of the required public participation process for the project and serves to:

- Inform you as a potential interested or affected party (IAP) about the environmental basic assessment processes for the aforementioned projects.
- Provide background information about these projects.
- Present the purpose and methodology of an environmental basic assessment.
- Describe opportunities for you to participate in the environmental basic assessment processes, specifically the public participation process.

## PROJECT DESCRIPTIONS

The SIOC is in the process of relocating linear infrastructure, which currently runs through the middle of their property at the Sishen Mine to the perimeter of their property, through a project known as the Sishen Western Expansion Project (SWEP). The SIOC maintains that the relocation is necessary due to the continued progression of the opencast mine pit in a westerly and south-westerly direction. The infrastructure earmarked for relocation are not all mining-related and are owned and operated by a variety of stakeholders including Eskom, Transnet Limited, Sedibeng Water Board, SIOC and the Northern Cape Department of Roads and Public Works. SIOC has all the necessary environmental approvals (DEA Ref: 12/12/20/1436 and DENC Ref: NC/BA/JTG/GAM/SIS2/2012) in place and construction of the new infrastructure is underway, except for the relocation of the 66 kV power line and the Bruce sub-station.

### Relocation of a 66kV Power line and the Bruce Sub-station

The SIOC proposes to relocate a section of the 66kV power line, which currently runs north-south on the western side of the current opencast pit boundary of the Sishen Mine to a position within the property boundary and mining rights area of the Sishen Mine. An approximate 6 km section of the power line will have to be relocated to provide access to a portion of the Sishen Mine iron ore deposits currently sterilised by the power line. The Bruce 66 kV sub-station located to the south of Sishen Mine and the DR 3333 public road, also needs to be relocated to a position within the Sishen Mine property boundary and mining rights area.

The 66kV power line and the Bruce sub-station are owned and operated by the SIOC, therefore no servitude is required. The existing 66kV internal power line is a double wooden pole line, supplying power to the Sishen mining activities. The power line serves purely operational purposes - mine pit electrification.

During the course of 2009 an interim relocation of the 66 kV internal power line was carried out, but was restricted by the existing position of the Postmasburg-Hotazel Transnet Freight railway line. Therefore, resulting in the interim power line route running parallel and to the east of the Postmasburg-Hotazel rail. However, this proposed relocation of the 66kV power line will only take place once the Postmasburg-Hotazel railway line, for which a new route is currently being constructed, has been relocated.

The proposed route will run from the interim 66kV power line route, north-west of the current mine pit boundary, in a south-western direction until it reaches the farm boundary of the farm Sacha 468. Thereafter the route will turn southwards, running parallel with the old Postmasburg-Hotazel railway line across the farms Sacha 468 and Gamagara 541. The route will then turn south-eastwards in order to link with the G17 substation. The proposed location for relocation of the Bruce sub-station will be ~ 2,5 km west of the sub-station's current position, on the farm Gamagara 541 west of the R325 public road to Dingleton. The existing and proposed power line routes and sub-station positions are illustrated on the site plan (Refer to Figure 1).

Privately owned land is located approximately 4 and 1.7 kilometers away from the power line and substation respectively, and will not be crossed or affected by the proposed power line route and sub-station position. Existing infrastructure and services that may be affected include farm roads and water furrows/canals, entirely owned by the SIOC.

Construction activities will involve clearing of natural vegetation and the establishment of contractor lay down areas along the power line route.

### Inert Waste Disposal to the SWEP Borrow Pits

Material for the construction of the relocated infrastructure has been sourced from various borrow pits along the servitude route. These borrow pits are also located on land owned by SIOC and were approved by the Department of Mineral Resources (DMR) (DMR Ref: NC 30/5/1/3/2/1/2003 EM).

The existing services in the old infrastructure corridor now require to be decommissioned and demolished. The demolition of these services will generate significant volumes of materials which need to be managed in a responsible and compliant manner. Portions of the materials generated during the demolition may be classified as wastes and the activities required to manage these wastes may fall within the ambit of the National Environmental Management: Waste Act, 2008.

The bulk of the materials will be reclaimed for further use by Transnet and Eskom and will not require disposal. Other metal materials will be sold to external parties as scrap. In order to substantially reduce transportation costs, SIOC proposed that the inert waste and clean building rubble be disposed to four SWEP borrow pits. This material can be utilised to backfill portions of the borrow pits prior to rehabilitation. A maximum of 25 000 tonnes of inert waste will be disposed per borrow pit. Borrow pits on the following farms will be utilised:

- Remaining Extent and Portion 1 of the Farm Gamagara 541,
- Portion 1 and 2 of the Farm Fritz 540, and
- Remaining Extent of the Farm Nooitgedacht 469

Specialist studies and analysis have been conducted in order to conform that the material to be disposed in the borrow pits does not contain any hazardous substances.

## **ENVIRONMENTAL LEGAL PROCESSES**

### **Relocation of a 66kV Power line and the Bruce Sub-station**

Environmental Impact Assessment (EIA) regulations have been published (Government Notice Regulation (GNR) 543 to 546) in terms of the National Environmental Management Act (No 107 of 1998) as amended (NEMA). Activities listed in the EIA regulations require authorisation from the Northern Cape Department of Environment and Nature Conservation (DENC) prior to commencement. A Basic Assessment (BA) process is required in support of the application for authorisation.

Activities to be undertaken that require authorisation in terms of the EIA Regulations include:

- The construction of facilities or infrastructure for the transmission and distribution of electricity – outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts.
- The construction of infrastructure or structures covering 50 square meters or more where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse.
- The clearance of an area of 5 hectares or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation.

### **Inert Waste Disposal to the SWEP Borrow Pits**

Four separate BA's are required in terms of the Waste Management Activities (GNR 718, published 3 July 2009) under the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and also the Environmental Impact Assessment regulations (GNR 543, published 18 June 2010). Activities listed in the GNR 718 require authorisation from the DENC prior to commencement.

Activities to be undertaken that require authorisation in terms of GNR 718 include:

- The disposal of inert waste in excess of 25 tons and with a total capacity of 25 000 tons, excluding the disposal of such waste for the purposes of levelling and building.



# PROJECT LOCATION AND LAYOUT

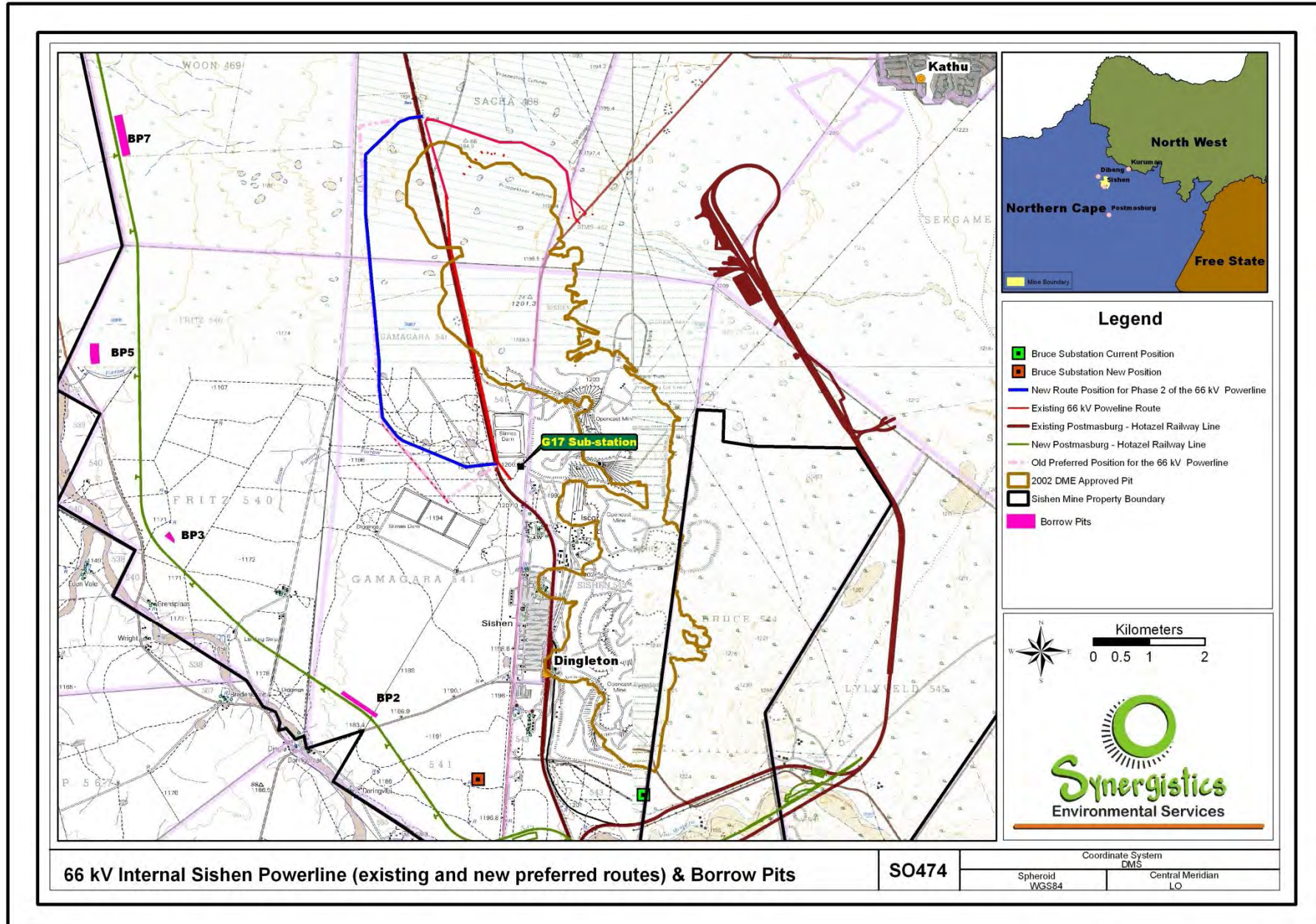


Figure 1: Location of the 66kV power line and Bruce substation (existing and proposed) as well as the location of the relevant SWEP borrow pits.

## ENVIRONMENTAL AUTHORISATION PROCESS

An EIA process for the relocation of rail and associated infrastructure at Sishen Mine was initiated in 2008. The process included a thorough public participation process of the relocation of the following infrastructure at the Sishen Mine:

### Rail and Associated Infrastructure

- A section of the Postmasburg-Hotazel Transnet freight railway line;
- A section of the Sishen Lylyveld rail turnout to Sishen load-out stations (hereafter referred to as the Lylyveld siding);
- Associated infrastructure displaced by relocation of the railway lines;
  - Two Transnet traction substations,
  - Two 132 kV Eskom power lines to supply the traction substations,
  - A section of the Dingleton-Dibeng public gravel road (for the western route option of the Postmasburg-Hotazel railway line).

### Power lines (not associated with rail infrastructure)

- Eskom power lines;
  - A section of the 275 kV Eskom power line,
  - A section of the 400 kV Eskom servitude (future power line).
- Sishen Mine internal power lines;
  - **Relocation of a 66kV Power line and the Bruce Sub-station.**

### Water Pipeline

- A section of the Vaal-Gamagara water pipeline.

The project components listed above are not all mining-related and are owned and operated by a variety of stakeholders, as mentioned.

Due to the involvement of different stakeholders and implementation timeframes for the individual project

components, the applications for environmental authorisation had to be split into five, with three full EIAs and three BAs being required. In addition to these applications, further applications for environmental authorisations - BA's for the Inert Waste Disposal to the SWEP Borrow Pits, was added to the list at a later stage. The latter consist of four separate BA's, each covering a specific borrow pit.

This document covers the BA for the relocation of a 66kV Power line and the Bruce Sub-station as well as the BA's for the Inert Waste Disposal to the SWEP Borrow Pits.

### **Basic Assessment**

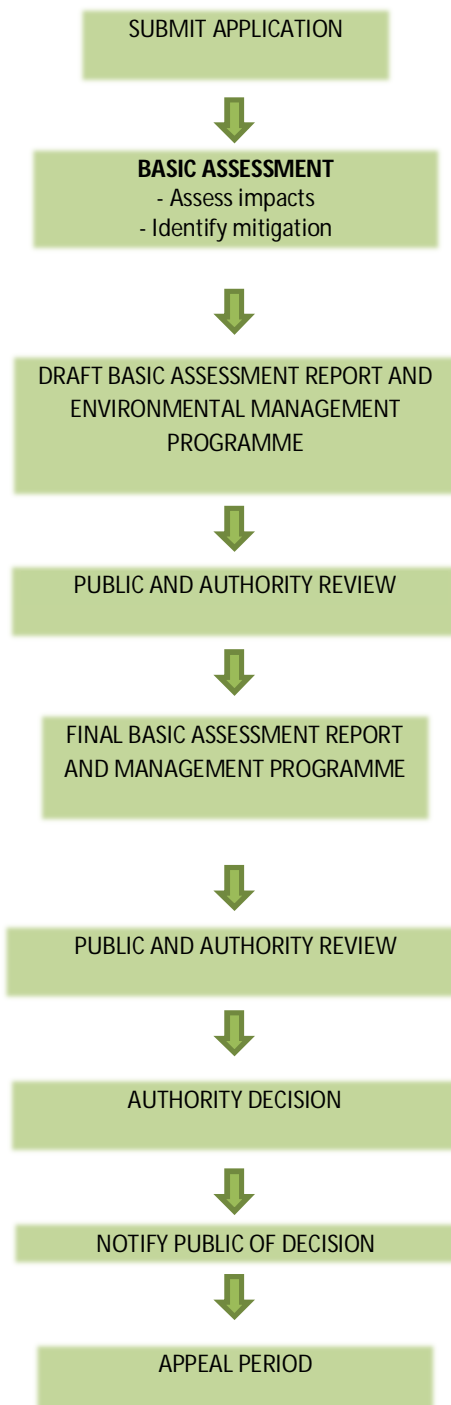
A BA process is a confined environmental analysis of proposed activities, but on a smaller scale, and with less significant and easy manageable environmental impacts. Although a Basic Assessment Report (BAR) comprises less detail than a thorough EIA, it still requires: a complete public participation process; the consideration of potential impacts due to the proposed activity; the assessment of possible mitigation measures; and an assessment to whether any significant issues should be investigated further.

The findings of the impact assessment and the proposed measures identified to mitigate such impacts will be documented in a Basic Assessment Report. The draft report and final report will be made available for public comment.

### **Environmental Management Programme**

Activity and project specific environmental management programmes (EMP's) will be developed aimed at addressing impacts identified and reducing risks to acceptable levels.

# ENVIRONMENTAL AUTHORISATION PROCESS



**PUBLIC INPUT SHEET FOR THE RELOCATION OF A 66KV POWER LINE AND BRUCE SUB-STATION**

<b>Name:</b>	
<b>Address:</b>	
<b>Telephone/cell phone:</b>	
<b>Fax:</b>	
<b>E-mail:</b>	
<b>Date:</b>	
<b>Signature:</b>	

**If you know of others who should be informed of the project, please provide us with their contact details:**

<b>Name:</b>	
<b>Address:</b>	
<b>Telephone/cell phone:</b>	
<b>Fax:</b>	
<b>E-mail:</b>	

<b>ISSUES, CONCERNS AND QUESTIONS</b> (use additional pages if required) Please complete and return to Synergistics Environmental Services (as below) within 14 days.

**RETURN COMPLETED SHEET TO:**  
**Clifford Hallatt**  
 Relocation of a 66kV Power line and Bruce Sub-station at the  
 Sishen Iron Ore Mine  
 Synergistics Environmental Services  
 Tel: 011 807 8225  
 Fax: 011 807 8226  
 E-mail: clifford@synergistics.co.za  
 Post: PO Box 1822, Rivonia, 2128, South Africa



**PUBLIC INPUT SHEET FOR THE INERT WASTE DISPOSAL TO THE SWEP BORROW PITS**

<b>Name:</b>	
<b>Address:</b>	
<b>Telephone/cell phone:</b>	
<b>Fax:</b>	
<b>E-mail:</b>	
<b>Date:</b>	
<b>Signature:</b>	

**If you know of others who should be informed of the project, please provide us with their contact details:**

<b>Name:</b>	
<b>Address:</b>	
<b>Telephone/cell phone:</b>	
<b>Fax:</b>	
<b>E-mail:</b>	

**ISSUES, CONCERNS AND QUESTIONS**

**(use additional pages if required)**

**Please complete and return to Synergistics Environmental Services (as below) within 14 days.**


**RETURN COMPLETED SHEET TO:**  
**Clifford Hallatt**  
Inert Waste Disposal to the SWEP Borrow Pits  
Synergistics Environmental Services  
Tel: 011 807 8225  
Fax: 011 807 8226  
E-mail: clifford@synergistics.co.za  
Post: PO Box 1822, Rivonia, 2128, South Africa



Datum: 14-09-2012

Ons Verw: SO474

**Aandag:** Belanghebbende en Geaffekteerde Partye

**Johannesburg:** Tel: 011 807 8225 Fax: 011 807 8226  
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2 Wattle Grove, Hilton, 3201

**Namibia:** Tel: +264 (0)64 406 587  
Fax: +264 (0)88 647 501  
PO Box 4821, Swakopmund

Geagte Mr / Me

## **KENNISGEWING VAN BASIESE OMGEWINGS ASSESSERINGS**

### **Sishen Westelike Uitbreidingsprojek**

Die Sishen Ystererts Maatskappy (SIOC) is in die proses om liniêre infrastruktuur te hervestig wat huidiglik deur die middel van hul eiendom by die Sishen Ystererts Myn (Sishen Myn) strek na die grens van hul eiendom deur middel van 'n projek wat bekend staan as die Sishen Westelike Uitbreidingsprojek (SWEP). Die SIOC beweer dat die hervestiging nodig is a.g.v. die voortgesette vordering van die oopgroefmyn put in 'n westelike en suid-westelike rigting. Die infrastruktuur wat hervestig moet word is nie almal aan die myn verwant nie en word besit en bedryf deur 'n verskeidenheid van rolspelers soos Eskom, Transnet Beperk, Sedibeng Water Raad, SIOC en die Noord-Kaapse Departement van Paaie en Openbare Werke. SIOC het al die nodige omgewingsgoedkeurings (DEA Verw: 12/12/20/1436 en DENC Verw: NC/BA/JTG/GAM/SIS2/2012) in plek en die bou van die nuwe infrastruktuur is reeds onderweg, behalwe vir die hervestiging van die 66 kV kraglyn en die Bruce sub-stasie.

Kennis word hiermee gegee dat die SIOC aansoek doen vir addisionele omgewingsgoedkeurings. Al die aansoeke sal voorgelê word aan die Noord-Kaapse Departement van Omgewing en Natuurbewaring (DENC) as die bevoegde owerheid. Hiermee aansoek besonderhede:

Hervestiging van 'n 66kV Kraglyn en die Bruce Sub-stasie

DENC Verwysing: NC/BA/JTG/SIS/2012, NCP/EIA/0000129/2012

Die SIOC is van voorneme om 'n gedeelte van die 66kV kraglyn en die Bruce sub-stasie, onderskeidelik geleë aan die westelike en suidelike kant van Sishen Myn, te hervestig na 'n ligging binne die Sishen Myn se eiendom en mynreg area. Hierdie kraglyn en sub-stasie verskaf krag aan die Sishen Myn se bedrywighede en word besit en bestuur deur die SIOC.

'n Basiese Omgewings Assessering (BOA) word vereis in terme van die Nasionale Wet op Omgewingsbestuur (No 107 van 1998) en die Omgewingsimpakevaluering regulasies (Regeringskennisgewing Regulasies (GNR) 543 - 546, gepubliseer op 18 Junie, 2010).

## Inerte Afval Beskikking aan die SWEP Leengroewe

DENC Verwysings: NC/JTG/SISH3/2012, NC/JTG/SISH4/2012, NC/JTG/SISH5/2012 en NC/JTG/SISH6/2012

Die SIOC het konstruksie materiaal vir die bou van die hervestigde infrastruktuur verkry vanaf verskeie SWEP leengroewe wat geleë is binne die Sishen Myn eiendom. Die bestaande dienste in die ou infrastruktuur moet buite werking gestel en gesloop word. Die sloping van hierdie dienste sal groot volumes materiaal genereer wat in 'n verantwoordelike en wettige wyse bestuur moet word. SIOC het voorgestel dat die inerte afval en skoon bourommel tot vier van die SWEP leengroewe weggedoen word. Hierdie materiaal kan aangewend word om die gedeeltes van die leengroewe op te vul voor rehabilitasie. 'n Maksimum van 25 000 ton inerte afval gaan weggedoen word per leengroef.

Vier aparte BOA's word vereis in terme van die Afvalbestuursaktiwiteite (GNR 718, gepubliseer op 3 Julie 2009) onder die Nasionale Omgewingsbestuur: Afval Wet, 2008 (Wet 59 van 2008) en ook die Omgewingsimpakevaluering regulasies (GNR 543, gepubliseer op 18 Junie 2010).

In ooreenstemming met die Omgewingsimpakevaluering regulasies, sal die Konsep BAR's voorgelê word aan die DENC. Terselfde tyd sal dit beskikbaar gestel word vir hersiening deur die publiek, betrokke organe van die staat en ander staatsdepartemente vir 'n tydperk van 40 dae.

Die openbare oorsigtydperk sal wees aan die **einde van Oktober 2013**. Verdere korrespondensie sal spesifieke oorsigdatums voorsien. Na afloop van die oorsigtydperk word die verslae opdateer en weer uitgestuur aan geregistreerde belanghebbende en geaffekteerde partye (IAP) en aan die DENC as die Finale BOA's. Die verslae sal beskikbaar wees vir oorsig by die volgende plekke:

GEDRUKTE AFSKRIFTE BY PUBLIEKE PLEKKE	
Kathu Biblioteek	
Sishen myn, Sekuriteitskantoor by die ingang van die myn	
Kumba Kantoor, Kathu	
Konstruksie kantoor van die Sishen Westelike Uitbreidingsproject (SWEP)	Mr Rudi Pothas Tel: 053 7393887
ELECTRONIESE WEERGAWES	
Synergistics webblad	<a href="http://www.synergistics.co.za">www.synergistics.co.za</a>
Op versoek via e-pos van Synergistics Environmental Services	Mr Clifford Hallatt Tel: 011 807 8225, Faks: 011 807 8226, Of stuur e-pos versoek aan <a href="mailto:Clifford@synergistics.co.za">Clifford@synergistics.co.za</a> , of voltooi die vorm wat ingesluit is in die Agtergrond Informasie Dokument (AID).

U word versoek om kommentaar te lewer op die Konsep BOA's op enige van die volgende maniere:

- Deur die projek spesifieke kommentaarblad te voltooi;
- Deur 'n brief te skryf, of deur die voorsiening van addisionele geskrewe voorleggings; of
- Deur 'n e-pos te stuur of deur die publieke deelname kantoor te bel.

Voltooi asseblief en die aangehegte kommentaarblad en stuur terug aan Synergistics Environmental Services om sodoende aan te dui dat u verdere inligting vereis m.b.t. die BOA's soos vordering gemaak word en om te registreer as 'n IAP. U is ook welkom Synergistics telefonies te kontak op 011 807 8225 vir enige tegniese en BOA verwante navrae. Spesifiseer asseblief watter van die bogenoemde projekte u voor registreer en verdere inligting oor vereis.

U insette en terugvoer is van uiterste belang.

Die uwe



**Marline Medallie**

M.Sc Plantkunde (Molekulêre Sistematiek)

Direkteur





**KENNISGEWING VAN BASIESE  
OMGEWINGSASSESSERINGS :  
HERVESTIGING VAN 'N 66 KV  
KRAGLYN EN DIE BRUCE SUB-STASIE  
&  
INERTE AFVAL BESKIKKING AAN DIE  
SWEP LEENGROEWE**

Hierdie Agtergrond Inligtingsdokument (BID) voorsien Belanghebbende en Geaffekteerde Partye (I& AP) met inligting oor die voorgestelde projek en nooi hulle om deel te neem aan die publieke konsultasie proses van die Basiese Omgewingsassesseringsproses.

U word uitgenooi om te registreer as 'n I&AP vir die voorgestelde hervestiging van die Vaal Gamagara water pyplyn by die Sishen Ysterertsmy, naby Kathu, Noord-Kaap.

U word uitgenooi om besware uit te lig en vrae oor die projekte te vra. Voltooi en stuur aan Synergistics Environmental Services binne 14 dae. Daar sal addisionele geleenthede in die toekoms wees vir u om deel te neem en kommentaar te lewer.

**Voltooi asseblief die registrasie / kommentaarvorm en stuur aan:**

**Clifford Hallatt**

Synergistics Environmental Services

Tel: 011 807 8225

Faks: 011 807 8226

Pos: Posbus 1822, Rivonia 2128

Epos: clifford@synergistics.co.za



## Agtergrond Inligtingsdokument

### Basiese Omgewingsassesserings:

- Hervestiging van 'n 66 kV Kraglyn en die Bruce Sub-stasie (DENC Verwysing: NC/BA/JTG/SIS/2012, NCP/EIA/0000129/2012)
- Inerte Afval Beskikking aan die SWEP Leengroewe (DENC Verwysings: NC/JTG/SISH3/2012, NC/JTG/SISH4/2012, NC/JTG/SISH5/2012 en NC/JTG/SISH6/2012)

Sishen Ystererts Myn (Sishen Myn), wat deur die Sishen Ystererts Maatskappy (SIOC) besit word, is een van die grootste oopgroefmyne in die wêreld. Dit is geleë in die noord-oostelike deel van die Noord-Kaap Provinsie in die John Taolo Gaetsewe Distriksmunisipaliteit en die Gamagara Plaaslike Munisipaliteit. Dit is geleë ongeveer (-) 280 km noordwes van Kimberley langs die N14 nasionale pad tussen Vryburg en Upington. Die dorpe in die nabyheid van Sishen Myn is Kathu (direk noord-oos), Dingleton (direk suid-wes), Sesheng (direk noord) en Dibeng (~ 21 km noord-wes).

### DOEL VAN DIE DOKUMENT

Hierdie dokument vorm deel van die vereiste publieke deelname proses vir die bogenoemde projekte en dien om:

- U as 'n moontlike belanghebbende of geaffekteerde party (IAP) in kennis te stel van die Basiese Omgewingsassesseringsprosesse vir die bogenoemde projekte.
- Agtergrond inligting te verskaf oor die onderskeie projekte.
- Die doel en metodologie van 'n Basiese Omgewingsassessering voor te stel.
- Geleenthede te beskryf vir u om deel te neem in die Basiese Omgewingsassesseringsproses, spesifiek die publieke deelname proses.

## PROJEK BESKRYWING

Die SIOC is in die proses om liniêre infrastruktuur te hervestig wat huidiglik deur die middel van hul eiendom by die Sishen Myn strek na die grens van hul eiendom deur middel van 'n projek wat bekend staan as die Sishen Westelike Uitbreidingsprojek (SWEP). Die SIOC beweer dat die hervestiging nodig is a.g.v. die voortgesette vordering van die oopgroefmyn put in 'n westelike en suid-westelike rigting. Die infrastruktuur wat hervestig moet word is nie almal aan die myn verwant nie en word besit en bedryf deur 'n verskeidenheid van rolspelers soos Eskom, Transnet Beperk, Sedibeng Water Raad, SIOC en die Noord-Kaapse Departement van Paaie en Openbare Werke. SIOC het al die nodige omgewingsgoedkeurings (DEA Verw: 12/12/20/1436 en DENC Verw: NC/BA/JTG/GAM/SIS2/2012) in plek en die bou van die nuwe infrastruktuur is reeds onderweg, behalwe vir die hervestiging van die 66 kV kraglyn en die Bruce sub-stasie.

### Hervestiging van 'n 66 kV Kraglyn en die Bruce Sub-stasie

Die SIOC is van voorneme om 'n gedeelte van die 66kV kraglyn te hervestig, wat huidiglik noord-suid strek aan die westelike kant van die oopgroefmyn se grens, na 'n ligging binne die Sishen Myn se eiendom en mynreg area. 'n Seksie van ~ 6 km van die kraglyn sal verskuif moet word om toegang te bied tot 'n gedeelte van die ystererts neerslae wat huidiglik deur die teenwoordigheid van die kragrade gesteriliseer word. Die Bruce 66kV sub-stasie aan die suidelike kant van die myn en die DR 3333 openbare pad, moet ook verskuif word na 'n ligging binne die Sishen Myn se eiendom en mynreg area.

Die 66 kV kraglyn en die Bruce sub-stasie word besit en bedryf deur die SIOC, dus word geen serwituutregte vereis nie. Die bestaande 66 kV interne kraglyn is 'n dubbele houtpaal lyn wat krag voorsien vir die mynbou-aktiwiteite. Die kraglyn dien suiwer operasionele doeleindes – myn put elektrifisering.

Gedurende die verloop van 2009 is 'n tussentydse hervestiging van die 66 kV interne kraglyn uitgevoer, maar is beperk deur die bestaande posisie van die Postmasburg-Hotazel Transnet Vrag spoorlyn. Dit is die rede waarom tussentydse kraglyn roete parallel en na die ooste van die Postmasburg-Hotazel spoor loop. Die voorgestelde verskuiwing van die 66 kV kraglyn sal slegs plaasvind sodra die Postmasburg-Hotazel spoorlyn, waarvoor daar tans 'n nuwe roete gebou word, hervestig is.

Die voorgestelde roete sal strek vanaf die tussentydse 66 kV kraglyn roete, noord-wes van die huidige myn put grens, in 'n suid-westelike rigting totdat dit die grens van die plaas Sacha 468 bereik. Daarna sal die roete suidwaarts draai en parallel met die ou Postmasburg-Hotazel spoorlyn loop oor die plase Sacha 468 en Gamagara 541. Die roete draai dan suid-ooswaarts om te skakel met die G17-substasie. Die voorgestelde ligging vir die hervestiging van die Bruce sub-stasie sal ~ 2,5 km wes van die sub-stasie se huidige posisie wees, op die plaas Gamagara 541, wes van die R325 publieke pad na Dingleton. Die bestaande en voorgestelde kraglyn roetes en sub-stasie posisies word geïllustreer op die terreinplan (Sien Figuur 1).

Privaat grond is ongeveer 4 en 1,7 kilometer onderskeidelik vanaf die kragrade en substasie geleë en sal nie oorsteek of geaffekteer word deur die voorgestelde kraglyn roete en sub-stasie posisie nie. Bestaande infrastruktuur en dienste wat beïnvloed kan word sluit in plaaspaaie en watervore / kanale wat geheel en al besit word deur die SIOC.

Konstruksie aktiwiteite sal die skoonmaak van natuurlike plantegroei behels asook die vestiging van kontrakteur storingsgebiede langs die kraglyn roete.

### Inerte Afval Beskikking aan die SWEP Leengroewe

Materiaal wat gebruik is vir die konstruksie van die hervestigde infrastruktuur is afkomstig van verskeie leengroewe langs die serwituut roete. Hierdie leengroewe is ook geleë op grond wat besit word deur die SIOC en is goedgekeur deur die Departement van Minerale Hulpbronne (DMR) (DMR Verw: NC 30/5/1/3/2/1/2003 EM).

Die bestaande dienste in die ou infrastruktuur roete moet ontmanteld en gesloop word. Die sloping van hierdie dienste sal groot volumes materiaal genereer wat bestuur moet word op 'n verantwoordelike en wetlike wyse. Gedeeltes van die materiaal wat gegenereer word tydens die sloping kan moontlik geklassifiseer word as afval en die aktiwiteite wat nodig is om hierdie afval te bestuur, kan moontlik val binne die omvang van die Nasionale Omgewingsbestuur: Afval Wet, 2008.

Die meerderheid van die materiaal sal terug geëis word vir verdere gebruik deur Transnet en Eskom en wegdoening sal dus nie nodig wees hiervoor nie. Ander metaal materiaal sal aan eksterne partye as skroot verkoop word. Ten einde vervoer koste aansienlik te verminder, het die SIOC voorgestel dat die inerte afval en skoon bourommel weggedoen word tot vier SWEP leengroewe.

Hierdie materiaal kan gebruik word vir die opvulling van gedeeltes van die leengroewe voor die aanvang van rehabilitasie. 'n Maksimum van 25 000 ton inerte afval sal weggedoen word per leengroef. Leengroewe op die volgende plase sal gebruik word:

- Resterende Gedeelte en Gedeelte 1 van die Plaas Gamagara 541,
- Gedeelte 1 en 2 van die Plaas Frits 540, en
- Resterende Gedeelte van die Plaas Nooitgedacht 469

Spesialis studies en ontleding is gedoen om te bevestig dat die materiaal wat weggedoen moet word in die leengroewe nie enige gevaarlike stowwe bevat nie.

## **WETLIKE OMGEWINGSPROSESSE**

### **Hervestiging van 'n 66 kV Kraglyn en die Bruce Sub-stasie**

Omgewingsimpak Assessering (EIA) Regulasies is gepubliseer (Regeringskennisgewing Regulasies (GNR) 543-546) in terme van die Nasionale Omgewingsbestuurwet (Nr 107 van 1998) soos gewysig (NEMA). Aktiwiteite gelys in die EIA-regulasies vereis goedkeuring vanaf die Noordkaapse Departement van Omgewingsake (DENC) voor die aanvang van konstruksie. 'n Basiese Omgewingsassessering (BOA) proses word vereis ter ondersteuning van die aansoek om goedkeuring.

Aktiwiteite wat onderneem gaan word wat goedkuring vereis in terme van die EIA Regulasies, sluit die volgende in:

- Die konstruksie van fasiliteite of infrastruktuur vir die transmissie en verspreiding van elektrisiteit - buite stedelike gebiede of industriële komplekse met 'n kapasiteit van meer as 33, maar minder as 275 kilovolt.
- Die konstruksie van infrastruktuur of strukture van 50 vierkante meter of meer waar die konstruksie plaasvind binne 'n waterloop of binne 32 meter van 'n waterloop, gemeet vanaf die rand van 'n waterloop.
- Die skoonmaak van 'n gebied van 5 hektaar of meer van plantegroei waar 75% of meer van die plantbedekking inheemse plantegroei is.

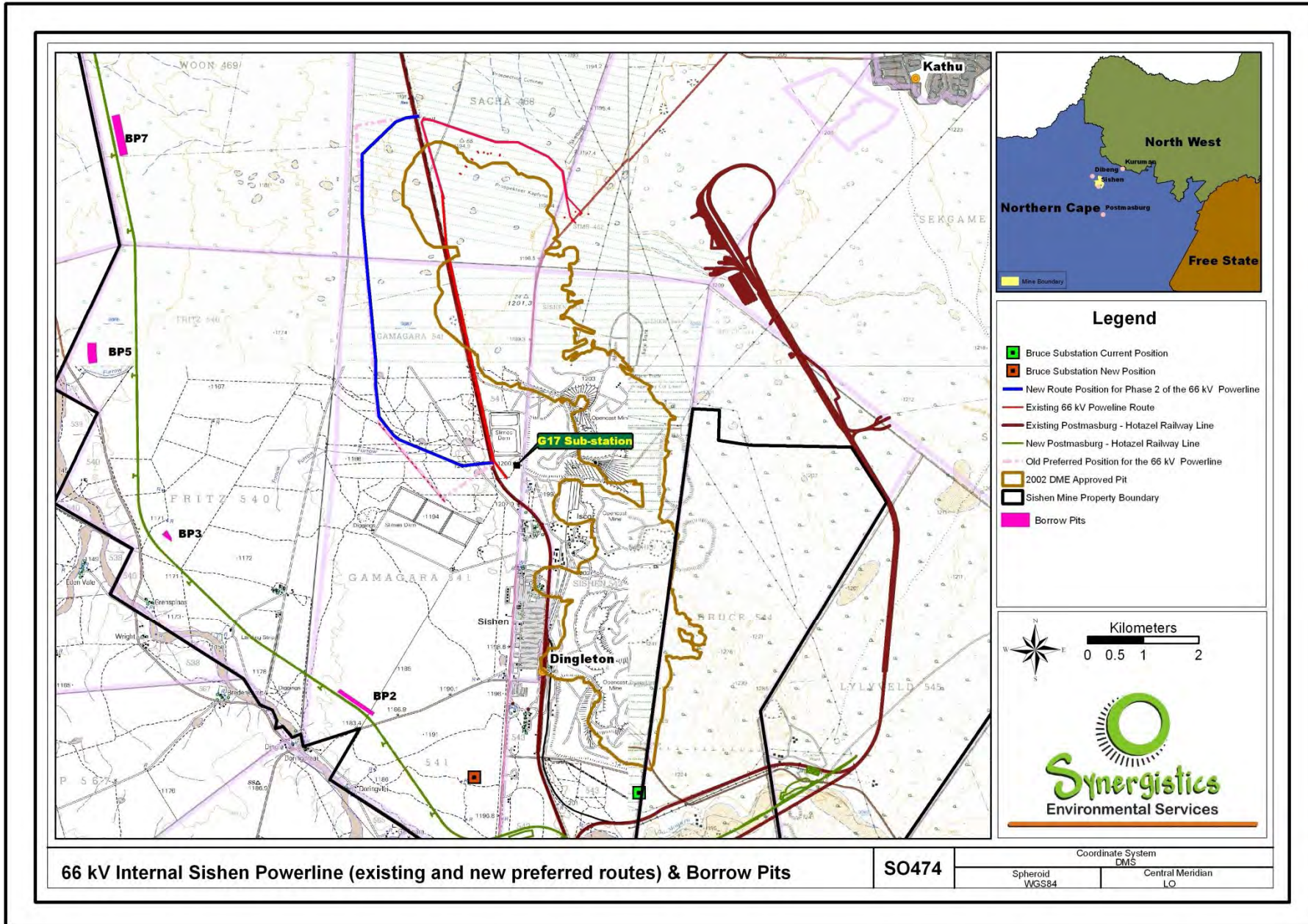
### **Inerte Afval Beskikking aan die SWEP Leengroewe**

Vier afsonderlike BOA's word vereis in terme van die Afvalbestuur Aktiwiteite (GNR 718, gepubliseer 3 Julie 2009) onder die Nasionale Omgewingsbestuur: Afval Wet, 2008 (Wet No 59 van 2008) en ook die Omgewingsimpak Assessering (GNR 543, gepubliseer 18 Junie 2010). Aktiwiteite gelys in die GNR 718 vereis goedkeuring van die DENC voor die aanvang daarvan.

Aktiwiteit wat onderneem gaan word wat goedkeuring vereis in terme van GNR 718, sluit die volgende in:

- Die wegdoening van inerte afval meer as 25 ton en met 'n totale kapasiteit van 25 000 ton, met die uitsondering van die wegdoening van afval vir die doeleindes van opvulling en bouwerk.

# PROJEK LIGGING EN UITLEG



Figuur 1: Ligging van die 66 kV kraglyn en Bruce sub-stasie (bestaande en voorgestelde) sowel as die ligging van die betrokke SWEP leengroewe.

## OMGEWINGSGOEDKEURING PROSES

'n EIA proses vir die hervestiging van die spoor-en verwante infrastruktuur by Sishen-myn is in 2008 begin. Die proses sluit in 'n deeglike publieke deelname proses vir van die hervestiging van die volgende infrastruktuur by die Sishen-myn:

### Spoor en verwante infrastruktuur

- 'n Gedeelte van die Postmasburg-Hotazel Transnet Vrag spoorlyn;
- 'n Gedeelte van die Sishen-Lylyveld spoor draaipunt na Sishen aflaaistasies;
- Gepaardgaande infrastruktuur verplaas deur die hervestiging van die spoorlyne;
  - Twee Transnet traksie substasies,
  - Twee 132 kV Eskom kraglyne om die traksie substasies te voorsien.
  - 'n gedeelte van die Dingleton-Dibeng openbare grondpad (vir die westelike roete opsie van die Postmasburg-Hotazel spoorlyn).

### Kraglyne (nie ververwant aan spoorinfrastruktuur nie)

- Eskom kraglyne:
  - 'n Gedeelte van die 275 kV Eskom kraglyne,
  - 'n Gedeelte van die 400 kV Eskom serwituut (toekomstige kraglyne)
- Sishen Myn interne kraglyne:
  - **Hervestiging van 'n 66kV kraglyn en die Bruce Sub-stasie**

### Water Pyplyn

- 'n Gedeelte van die Vaal Gamagara water pyplyn.

Die projek komponente hierbo gelys is nie almal mynbou-verwant nie en word besit en bedryf deur 'n verskeidenheid van rolspelers.

As gevolg van die betrokkenheid van die verskillende rolspelers en implementering tydsraamwerke vir die

individuele projek komponente, moes die aansoek vir omgewingsgoedkeuring in vyf dele opgebreek word, drie volle EIA's en twee BOA's. Addisioneel tot hierdie aansoek word verdere omgewingsgoedkeurings vereis – BOA's vir die Inerte Afval Beskikking aan die SWEP Leengroewe wat onlangs tot die lys bygevoeg is. Laasgenoemde bestaan uit vier afsonderlike BOA's, elk dek 'n spesifieke leengroef.

Hierdie dokument dek die BOA vir die hervestiging van 'n 66 kV kraglyn en die Bruce sub-stasie asook die BOA's vir die inerte afvalbeskikking aan die SWEP leengroewe.

### **Basiese Omgewingsassessering**

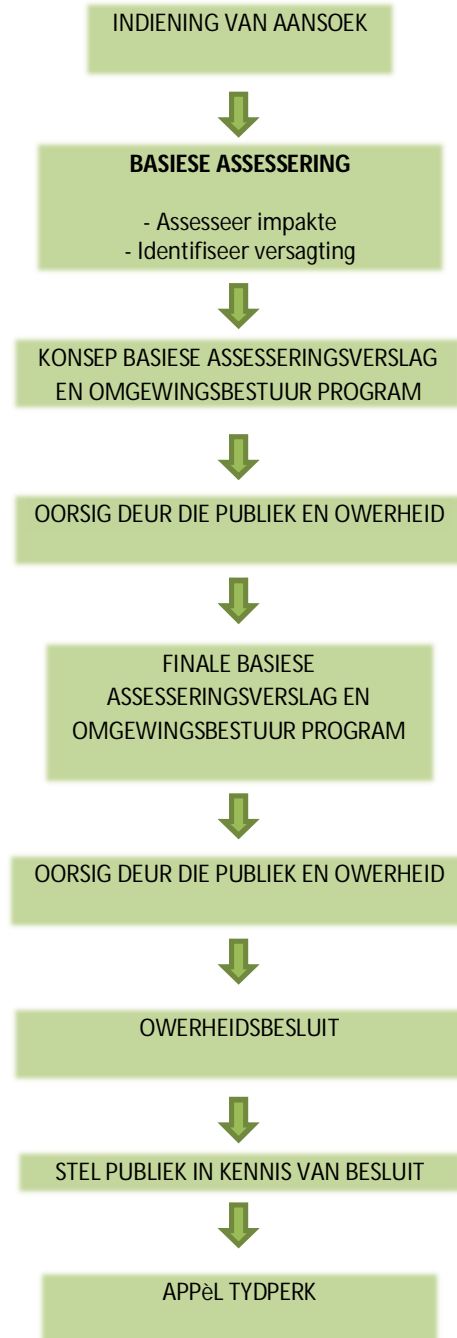
'n BOA proses is 'n beperkte omgewingsanalise van voorgestelde aktiwiteite, maar op 'n kleiner skaal, en met minder belangrike en maklik hanteerbare omgewingsimpakte. Hoewel 'n Basiese Assesseringsverslag (BAR) uit minder besonderhede bestaan as 'n volledige EIA, vereis dit egter steeds 'n volledige publieke deelname proses, die oorweging van die potensiële impakte as gevolg van die voorgestelde aktiwiteit, die beoordeling van moontlike versagtende maatreëls en 'n assessering of enige belangrike kwessies verder moet ondersoek word.

Die bevindinge van die impak assessering en die voorgestelde maatreëls wat geïdentifiseer is om sulke impak te versag sal gedokumenteer word in 'n Basiese Assesseringsverslag. Die konsep verslag en 'n finale verslag sal beskikbaar gestel word vir publieke kommentaar.

### **Omgewingsbestuur Program**

'n Omgewingsbestuur Program (EMP) sal ontwikkel word wat die impakte en die vermindering van risiko's tot aanvaarbare vlakke sal aanspreek.

# OMGEWINGSGOEDKEURING PROSES



**PUBLIEKE KOMMENTAARVORM VIR DIE HERVESTIGING VAN 'N 66 KV KRAGLYN EN DIE BRUCE SUB-STASIE**

<b>Naam:</b>	
<b>Adres:</b>	
<b>Telefoon/selfoon:</b>	
<b>Faks:</b>	
<b>Epos:</b>	
<b>Datum:</b>	
<b>Handtekening:</b>	

As u weet van ander partye wat in kennis gestel moet word oor die projek, voorsien ons asseblief van hul kontak besonderhede:

<b>Naam:</b>	
<b>Adres:</b>	
<b>Telefoon/selfoon:</b>	
<b>Faks:</b>	
<b>Epos:</b>	

<b>KWESSIES, BEKOMMERNISSE EN VRAE</b> (gebruik bykomende bladsye soos benodig word) Voltooi asseblief en stuur terug aan Synergistics Environmental Services (soos hier onder) binne 14 dae.

**STUUR VOLTOOIDE VORM AAN:**  
**Clifford Hallatt**  
Herverstiging van 'n 66 kV Kraglyn en die Bruce Sub-stasie  
Synergistics Environmental Services  
Tel: 011 807 8225  
Faks: 011 807 8226  
Epos: clifford@synergistics.co.za  
Pos: Posbus 1822, Rivonia, 2128, South Africa



**PUBLIEKE KOMMENTAARVORM VIR DIE INERTE AFVAL BESKIKKING TOT DIE SWEP LEENGROEWE**

Naam:	
Adres:	
Telefoon/selfoon:	
Faks:	
Epos:	
Datum:	
Handtekening:	

As u weet van ander partye wat in kennis gestel moet word oor die projek, voorsien ons asseblief van hul kontak besonderhede:

Naam:	
Adres:	
Telefoon/selfoon:	
Faks:	
Epos:	

**KWESSIES, BEKOMMERNISSE EN VRAE**

(gebruik bykomende bladsye soos benodig word)

Voltooi asseblief en stuur terug aan Synergistics Environmental Services (soos hier onder) binne 14 dae.


**STUUR VOLTOOIDE VORM AAN:**

**Clifford Hallatt**

Inerte Afval Beskikking tot die SWEP Leengroewe

Synergistics Environmental Services

Tel: 011 807 8225

Faks: 011 807 8226

Epos: clifford@synergistics.co.za

Pos: Posbus 1822, Rivonia, 2128, South Africa





(With an insurance option/met 'n versekeringsopsie)

Post Office

Full tracking and registered letter, air and speed

**Environmental Services**

Name and address of sender

Naam en adres van afsender

Company Reg No: 2003/030216/07

Tel: 011 807 8225

P.O. Box 1822

Fax: 011 807 8226

Rivonia

64 Wessels Street

2126

Unit 5

South Africa

Enquiries / Na vrae  
Toll free number  
Tollvry nommer  
**0800 111 502**

No	Name and address of addressee Naam en adres van geadresseerde	Insurance amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-klëntafskrif
1	J.F. Uijoen PO Box 800 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 136 987 ZA
2	S. van Schalkwyk PO Box 4 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 136 973 ZA
3	H.J. van de Mewe PO Box 7 Dibeng 8463					REGISTERED LETTER (with a domestic insurance option) RD 734 136 960 ZA
4	v. Smil PO Box 4 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 136 956 ZA
	C. Roos PO Box 253 Dingleton 8445					REGISTERED LETTER (with a domestic insurance option) RD 734 136 942 ZA
	G. Poolman PO Box 1135 Kathu 8445					REGISTERED LETTER (with a domestic insurance option) RD 734 136 939 ZA
	L. Venler PO Box 1620 Kathu 8446					REGISTERED COPY LETTER (with a domestic insurance option) RD 734 136 911 ZA
	A. M. van Jonkers PO Box 134 Dingleton 8445					REGISTERED LETTER (with a domestic insurance option) RD 734 136 925 ZA
	J. A. van der Linde PO Box 96 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 136 908 ZA
	I. Scholtz PO Box 10201 K. ooley 8315					REGISTERED LETTER (with a domestic insurance option) RD 734 136 885 ZA
						A BOOK COPY R
		Total Totaal	R	R	R	R

Number of letters posted  
Aantal briewe gepos

Signature of client

Tekening van klënt

Signature of accepting officer

Tekening van aanneembeampte

The contents of these letters is as indicated and compensation is not payable for a letter received conditionally. Compensation is limited to R100,00. No compensation is payable without documentary optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat onder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op die geregistreerde briewe van toepassing.

Date stamp  
17 SEP 2002  
4  
Datumstempel

(With an insurance option/met 'n versekeringsopsie)

Full tracking and registration (Volg-en-Spoor) met 'n spoor

Environmental Services

Name and address of sender / Naam en adres van afsender  
Company Reg No: 2003/030216/07

Tel: 011 807 8225 P.O. Box 1822  
Fax: 011 807 8226 Rivonia  
64 Wessels Street 2128

Enquiries/Navrae  
Toll-free number  
Tollvry nommer  
0800 111 502

Table with columns: No, Name and address of addressee, Insurance amount, Insurance fee, Postage, Service fee, and Affix Track and Trace customer copy. Contains 10 rows of recipient information and a total row.

Number of letters posted / briewe gepos  
Signature of client / tekening van kliënt

Signature of accepting officer / tekening van aanneembeampte

The contents of these letters is as indicated and compensation is not payable for a letter received conditionally. Compensation is limited to R100,00. No compensation is payable without documentary evidence. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat onder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op brieue wat geregistreer is van toepassing.



(With an insurance option/met 'n versekeringsopsie)

Post Office

Full tracking and registered letter with en spoor

Name and address of sender  
Naam en adres van afsender

Environmental Services  
Company Reg No: 2003/030216/07

Tel: 011 807 8225

P.O. Box 1822

Fax: 011 807 8226

Rivonia

64 Wessels Street

2128

Unit 5

South Africa

Enquiries / Navrae  
Toll free number  
Tolvry nommer  
**0800 111 502**

No	Name and address of addressee Naam en adres van geadresseerde	Insurance amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-klëntafskrif
1	A. Loubscher, PO Box 1001 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 137 086 ZA
2	D. Meegsee, PO Box 10201 Kimberley 8315					REGISTERED LETTER (with a domestic insurance option) RD 734 137 072 ZA
3	A. Markram, PO Box 1181 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 137 069 ZA
4	W. H. Maritz, PO Box 18 Olifantshoek 8450					REGISTERED LETTER (with a domestic insurance option) RD 734 137 055 ZA
5	H. Voster, Private Bag X 5018 Kimberley 8300					REGISTERED LETTER (with a domestic insurance option) RD 734 137 041 ZA
6	A. van Zyl, PO Box 712 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 137 024 ZA
7	G. A. van der Westhuizen, PO Box 1480 Kuruman 8460					REGISTERED LETTER (with a domestic insurance option) RD 734 137 038 ZA
8	A. Spiong, PO Box 10201 Kimberley 8300					REGISTERED LETTER (with a domestic insurance option) RD 734 137 015 ZA
9	H. J. Schaeffer, PO Box 10201 Kimberley 8300					REGISTERED LETTER (with a domestic insurance option) RD 734 137 007 ZA
10	A. Posthumus, P.O. Box 1490 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 136 995 ZA
Total Totaal		R	R	R	R	A BOOK COPY

Number of letters posted  
Briewe gepos

Signature of client  
Ondertekening van kliënt

Signature of accepting officer  
Ondertekening van aanneembeampte

The contents of these letters is as indicated and compensation is not payable for a letter received conditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat onder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op hierdie geregistreerde briewe van toepassing.

Date stamp  
17 SEP 2012  
2128  
Datumstempel

(With an insurance option/met 'n versekeringsopsie)

Full tracking and registered letter (BY) and en spoor

**Environmental Services**

Name and address of sender / Naam en adres van afsender  
 Company Reg No: 2003/030216/07

Tel: 011 807 8225 P.O. Box 1822  
 Fax: 011 807 8226 Rivonia  
 64 Wessels Street 2128  
 Unit 5

Enquiries / Na vrae  
 Toll free number  
 Tolvry nommer  
**0800 111 502**

No	Name and address of addressee Naam en adres van geadresseerde	South Africa Insurance amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-kliëntafskrif
1	A.J. du Toit, PO Box 73 Kuruman 8460					REGISTERED LETTER (with a domestic insurance option) RD 734 137 188 ZA
2	D. Fourie, PO Box 221 Hdazel. 8490					REGISTERED LETTER (with a domestic insurance option) RD 734 137 174 ZA
3	J.E. Hoffman, PO Box 823 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 137 165 ZA
6	J. Hoffman, P.O. Box 638 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 137 157 ZA
	J.M. Fourie PO Box 47 Deben 8463					REGISTERED LETTER (with a domestic insurance option) RD 734 137 143 ZA
	C.H. Kolze PO Box 41 Postmasburg 8420					REGISTERED LETTER (with a domestic insurance option) RD 734 137 130 ZA
	M.M. Kalp, PO Box 300 Deben 8463					REGISTERED LETTER (with a domestic insurance option) RD 734 137 126 ZA
	G.G. Jacobs, P.O. Box 101 Olifantshoek 8450					REGISTERED LETTER (with a domestic insurance option) RD 734 137 112 ZA
	A. Maritz, P.O. Box 1656 Kathu 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 137 109 ZA
	J.P. Lock PO Box 715 K. 8446					REGISTERED LETTER (with a domestic insurance option) RD 734 137 090 ZA
		<b>Total</b>	<b>Total</b>	<b>Total</b>	<b>Total</b>	<b>A BOOK COPY</b>

Number of letters posted / briewe gepos

Signature of client / tekening van kliënt

Signature of accepting officer / tekening van aanneembeampte

The contents of these letters is as indicated and compensation is not payable for a letter received conditionally. Compensation is limited to R100,00. No compensation is payable without documentary optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief afsonderlik ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op hierdie geregistreerde briewe van toepassing.



(With an insurance option/met 'n versekeringsopsie)

Post Office

50 474

Full tracking service / Volledige spoor

Name and address of sender  
Naam en adres van afsender  
**Environmental Services**  
Company Reg No: 2003/030216/07

Tel: 011 807 8225 P.O. Box 1822  
Fax: 011 807 8226 Rivonia  
64 Wessels Street 2128

Enquiries Navrae  
Toll-free number  
Tolvry nommer  
**0800 111 502**

Unit 5

South Africa

No	Name and address of addressee Naam en adres van geadresseerde	Insurance amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-klantafskrif
1	A Abrahams, P.O. Box 6101 Kimberley 8300					REGISTERED LETTER (with a domestic insurance option) RD 734 137 302 ZA
2	S B Godduswe - P.O. Box 148 Kuruman 8460					A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 316 ZA
1	C. Joachims, P.O. Box 1001 Kathu, 8446					A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 421 ZA
	F. Carlson P.O. Box 43 Dingleton 8445					A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 418 ZA
	T. Mapinga, Private Bag X447 Pretoria 0001					A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 293 ZA
	R. Moerane, 162 George Street Kimberley 8300					A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 320 ZA
	Z. Mzila, P.O. Box 2467, Kuruman 8460					A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 333 ZA
	D. M. SETHOLE, P.O. Box 1336 Kuruman					REGISTERED LETTER (with a domestic insurance option) RD 734 137 449 ZA
	N. Ravhugoni 29 to 31 Currey Street Liberty Corner, Kimberley 8460					A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 347 ZA
	MJ Rakoi P.O. Box 1001 Kathu 8446					A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 435 ZA
						A BOOK COPY
Total Totaal		R	R	R	R	

Number of letters posted  
Aantal briewe gepos

Signature of client  
Ondertekening van kliënt

Signature of accepting officer  
Ondertekening van aanneembeampte

The contents of these letters is as indicated and compensation is not payable for a letter received  
onally. Compensation is limited to R100,00. No compensation is payable without documentary  
evidence. Conditional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief  
sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder  
dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op  
geregistreerde briewe van toepassing.

RIVONIA P.O.  
Date stamp  
17 SEP 2002  
2128  
Datumstempel

(With an insurance option/met 'n versekeringsopsie)

Post Office

Full tracking and registration by hand en spoor

SO 470

Name and address of sender: Environmental Services  
Naam en adres van afseender: Company Reg No: 2003/030216/07

Enquiries/Vrae  
Toll-free number  
Tollvry nommer  
0800 111 502

Tel: 011 807 8225 P.O. Box 1822  
Fax: 011 807 8226 Rivonia  
64 Wessels Street 2128

Unit 5

South Africa

No	Name and address of addressee Naam en adres van geadresseerde	Insurance amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-kliëntafskrif REGISTERED LETTER (with a domestic insurance option) RD 734 137 452 ZA A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 470 ZA A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 497 ZA A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 466 ZA A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 483 ZA A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 506 ZA A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 364 ZA A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 355 ZA A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 378 ZA A BOOK COPY REGISTERED LETTER (with a domestic insurance option) RD 734 137 404 ZA A BOOK COPY
1	J.J. Matyoreute, Private Bag X6102 Kimberley 8300					
2	S. Fiff P.O. Box 255 Bloemfontein 9300					
3	K. d. Mabudi, Private Bag X117 Mathibistad 8474					
	X. Manong, Private Bag X910 Kuruman 8460					
	S. G. Mbanjwa, Private Bag X6102 Kimberley 8300					
	A. Townsend P.O. Box 774 Postmasburg 8420					
	L. W. Ndlovu, P.O. Box 255 Bloemfontein 9300					
	C. Sechudi, Kuruman P.O. Box 1336 8460 (Kuruman)					
	G. Thupe - Private Bag X5064 Kimberley 8300					
	M. Manong P.O. Box 361 Kuruman 8460					
Total Totaal		R	R	R	R	

Number of letters posted  
Aantal briewe gepos

Signature of client  
Handtekening van kliënt

Signature of accepting officer  
Handtekening van aanneembeampte

The contents of these letters is as indicated and compensation is not payable for a letter received  
Inhoud van hierdie briewe is soos aangedui en vergoeding is nie betaalbaar vir 'n brief  
voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder  
re bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op  
e geregistreerde briewe van toepassing.





(With an insurance option/met 'n versekeringsopsie)

Post Office

474

Full tracking and registration (Volg-en-spoor)

Environmental Services

Company Reg No: 2003/030216/07

Name and address of sender

Naam en adres van afsender

Tel: 011 807 8225

Fax: 011 807 8226

64 Wessels Street

Unit 5

P.O. Box 1822

Rivonia

2128

Enquiries/Navras  
Toll-free number  
Tolvry nommer  
**0800 111 502**

No	Name and address of addressee Naam en adres van geadresseerde	South Africa Insurance amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-klëntafskrif REGISTERED LETTER (with a domestic insurance option) RD 734 136 899 ZA A BOOK COPY
1	B.M. Olivier. PO Box 1480 Kuruman 8460					
2						
3						
4						
5						
6						
7						
8						
9						
10						
Total Totaal		R	R	R	R	

Number of letters posted  
Aantal briewe gepos

Signature of client  
Handtekening van kliënt

Signature of accepting officer  
Handtekening van aanneembeampte

The contents of these letters is as indicated and compensation is not payable for a letter received conditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat onder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op hierdie geregistreerde briewe van toepassing.

Date stamp

RIVONIA P.O.

17 SEP 2012

4 Datumstempel

2128



Appendix A4:  
Waste Management Workshop  
23 February 2012



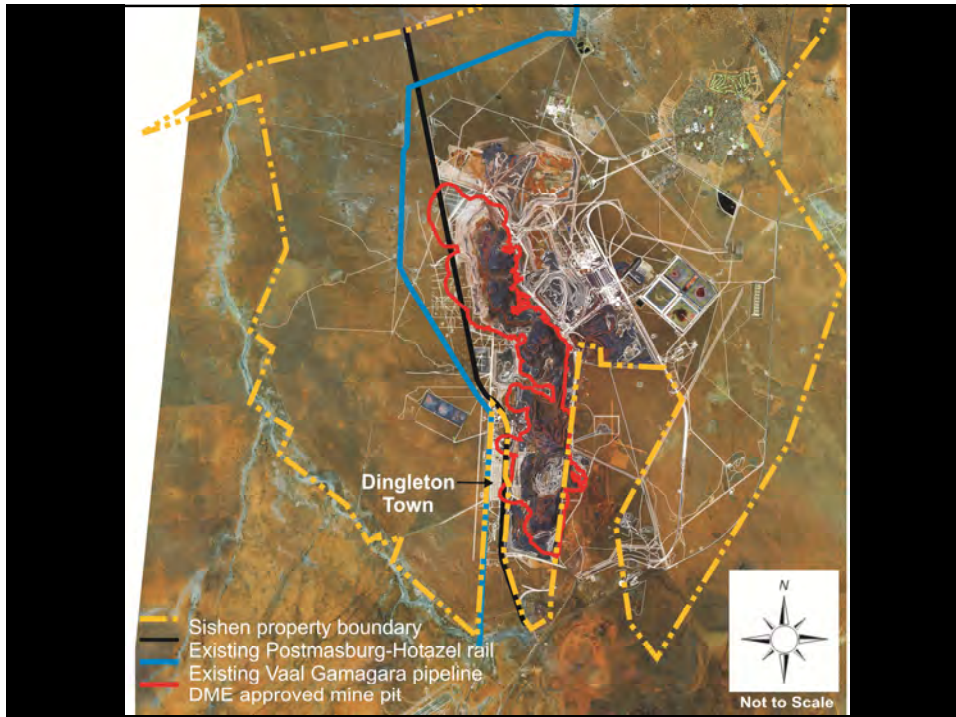
## Waste Management Workshop 23 February 2012



- 1. WELCOME & INTRODUCTIONS**
- 2. PURPOSE OF THE WORKSHOP**
- 3. SWEP PROJECT BACKGROUND & OVERVIEW**
- 4. DEALING WITH WASTE**
  - Sources of waste
  - Waste types and volumes
  - Waste use, recycling and disposal options
  - Waste legislation
  - Asbestos management & legislation
- 5. DISCUSSIONS**
- 6. CONCLUSIONS & WAY FORWARD**
- 7. CLOSING**



- Possibility of asbestos contamination along the existing Postmasburg-Hotazel railway line
- Management of hazardous and general waste due to the demolition of existing infrastructure and structures
- Waste management licensing process and risks to the project
- Practical rehabilitation methods





- **SIOC is in the process of relocating linear infrastructure currently running through the middle of Sishen Mine property to the perimeter of their property.**
- **The relocation is necessary because of the continued progression of the opencast mine pit in a westerly and south-westerly direction and to:**
  - Provide for the continued access of iron ore deposits, currently sterilised by infrastructure.
  - Provide space for the establishment of future mine infrastructure (mine waste deposits) to the west of the existing mine pit.
- **The Sishen Mine EMP Report approved by the DME in 2002, indicates that the footprint of the opencast mine pit will progress westwards from its current position to beyond the present route of the Postmasburg-Hotazel railway line, implying that that the railway line will have to be relocated.**



- **The approved pit footprint will progress to within ~250 m from the current location of the Vaal Gamagara water pipeline. At this distance, ground vibrations associated with blasting in the mine pit will negatively affect the pipeline and will therefore necessitate relocation of the pipeline.**
- **Relocation of the infrastructure at Sishen Mine is needed to:**
  - Enable Sishen Mine to stay in operation and to produce iron ore at the grades demanded by its clients and the world market.
  - Safeguard the employment and economic development opportunities created by Sishen Mine.



**The total scope of work of the project is to relocate infrastructure at Sishen Mine includes the following individual infrastructure components:**

- **Rail and Associated Infrastructure**
  - A section of the Postmasburg-Hotazel Transnet freight railway line;
  - A section of the Sishen Lylyveld rail turnout to Sishen load-out stations ( Lylyveld siding)
  - Associated infrastructure displaced by relocation of the railway lines;
    - Two Transnet traction substations (Sishen and Emil),
    - Two 132 kV Eskom power lines to supply the traction substations,
    - A section of the Dingleton-Dibeng public gravel road.
- **Power lines (not associated with rail infrastructure)**
  - Eskom powerlines – Sections of the 275 kV Eskom power line and the 400 kV Eskom servitude (future power line).
  - Sishen Mine internal power lines - A section of a 66 kV power line for mine pit electrification.



- **Water Pipeline**
  - A section of the Vaal-Gamagara water pipeline.
- **The project components listed above are not all mining-related and are owned and operated by a variety of stakeholders including Eskom, Transnet Limited, Sedibeng Water Board, Kumba, and the Northern Cape Department of Roads and Public Works.**
- **Due to the involvement of different stakeholders and implementation timeframes for the individual project components, the applications for environmental authorisation had to be split into five, with three full EIAs and two BAs being required.**



Proposed Infrastructure	Environmental Approvals	Construction
<b>Rail and Associated Infrastructure</b>		
Postmasburg-Hotazel railway Emil traction substation and 132kV traction supply power line Sishen traction substation and 132kV traction supply power line Dingleton-Dibeng public gravel road Lylyveld siding	Environmental Authorisation Water Use License Borrow Pit Permit Protected Tree Permit Protected Plant Permit	In process
<b>Related Infrastructure</b>		
Vaal Gamagara pipeline	Awaiting DEA decision on environmental authorisation for BA	April 2012 – Sept 2013
400 kV Eskom powerline	Eskom EIA application	As per Eskom's implementation schedule
275 kV Eskom powerline	Eskom EIA application	
<b>Old Infrastructure</b>		
<b>Environmental Approvals</b>		
<b>Demolition of redundant infrastructure (railway lines, pipeline, power lines and sub-stations)</b>	<b>Waste Management License</b>	<b>14 months</b>



## Dealing with Waste



- **Approximately 24 km railway lines**
- **Power lines**
- **Sub-stations**
- **Pipeline**
- **Old Sishen station and platforms**



- **General Waste**
  - Metals
  - Ballast
  - Concrete
  - Wiring
  
- **Hazardous Waste**
  - Hydrocarbons
  - Asbestos (type?)
  - Transformer oils



- Reuse and recycling
- Storage
- Disposal at a licensed waste disposal site
- Disposal at own site
- In-pit disposal
- Borrow pit disposal



**Waste Management Activities that have, or are likely to have a detrimental effect on the environment are listed in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008).**

**A person who wishes to commence, undertake or conduct a listed waste management activity must obtain a waste management licence. The list of Waste Management Activities is divided into Category A and B.**

**An application for a licence to conduct activities listed under this schedule must conduct either a basic assessment (A) or an environmental impact assessment process (B), as stipulated in the environmental impact assessment regulations made under section 24(5) of the National Environmental Management Act, 1998 (Act No. 107 of 1998).**

**Province is responsible for general waste, the National Department of Environmental Affairs is responsible for hazardous wastes.**



## Waste Legislation – Category A Basic Assessment Process



- **Storage of waste**
- **Reuse, recycling and recovery of general waste**
- **Treatment of general waste**
- **Construction of facilities for these activities**

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## Waste Legislation – Category B Environmental Impact Assessment Process



- **Reuse, recycling and recovery of hazardous waste**
- **Treatment of waste (above thresholds)**
- **Disposal of waste to land**
- **Construction of facilities for these activities**

Synergistics

Working Together



## Asbestos management & legislation



**Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)**

**Asbestos Regulations, 2001**

**Department of Labour**

Synergistics

Working Together



Discussions

Synergistics

Working Together

## Conclusions & Way Forward








Appendix A5:  
Authority Consultation meeting with  
Northern Cape Department of  
Environment and Nature Conservation  
10 May 2012

MEETING: SWEP Waste Management  
 DATE: 10 May 2012  
 VENUE: DENC, Sasko Building, Kimberley

ATTENDANCE REGISTER

NAME AND SURNAME	AFFILIATION	TEL	FAX	E-MAIL	SIGNATURE
Bryan Fisher IAN WILBORE	DENC	053-2677464	-	bfisher@nkpg.gov.za	
Marlene Medalie Clifford Hallatt	Synergistics "	082782559 0844688559	0118078225 "	marlene@synergistics.co.za clifford@synergistics.co.za	 



## Waste Management Process

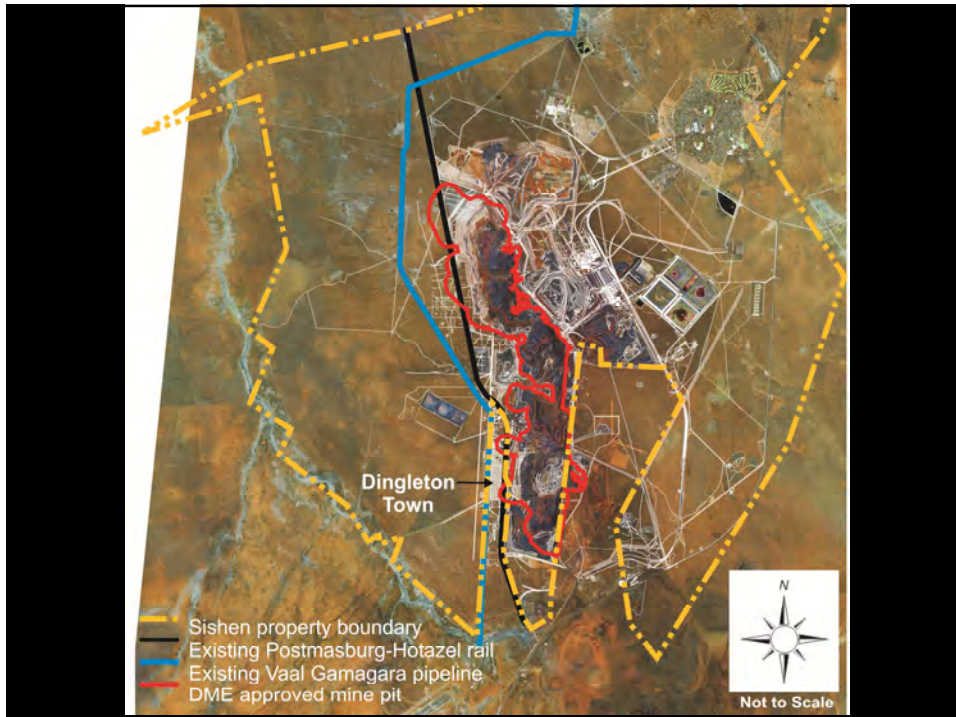
10 May 2012



- 1. WELCOME & INTRODUCTIONS**
- 2. PURPOSE OF THE MEETING**
- 3. SWEP PROJECT BACKGROUND & OVERVIEW**
- 4. DEALING WITH WASTE**
  - Sources of waste
  - Waste types and volumes
  - Waste use, recycling and disposal options
- 5. DISCUSSIONS**
- 6. CONCLUSIONS & WAY FORWARD**
- 7. CLOSING**



- Possibility of asbestos contamination along the existing Postmasburg-Hotazel railway line
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- **The project components listed above are not all mining-related and are owned and operated by a variety of stakeholders including Eskom, Transnet Limited, Sedibeng Water Board, Kumba, and the Northern Cape Department of Roads and Public Works.**
- **Due to the involvement of different stakeholders and implementation timeframes for the individual project components, the applications for environmental authorisation had to be split into five, with three full EIAs and two BAs being required.**



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275 kV Eskom powerline	Eskom EIA application	
<b>Old Infrastructure</b>		
<b>Environmental Approvals</b>		
<b>Demolition of redundant infrastructure (railway lines, pipeline, power lines and sub-stations)</b>	<b>Waste Management License</b>	<b>14 months</b>



## Dealing with Waste



- **Approximately 24 km railway lines**
- **Power lines**
- **Sub-stations**
- **Pipeline**
- **Old Sishen station and platforms**



- **General Waste**
  - Metals
  - Ballast
  - Concrete
  - Wiring
  
- **Hazardous Waste**
  - Hydrocarbons
  - Asbestos (type?)
  - Transformer oils



- Reuse and recycling
- Storage
- Disposal at a licensed waste disposal site
- Disposal at own site
- In-pit disposal
- Borrow pit disposal



**Waste Management Activities that have, or are likely to have a detrimental effect on the environment are listed in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008).**

**A person who wishes to commence, undertake or conduct a listed waste management activity must obtain a waste management licence. The list of Waste Management Activities is divided into Category A and B.**

**An application for a licence to conduct activities listed under this schedule must conduct either a basic assessment (A) or an environmental impact assessment process (B), as stipulated in the environmental impact assessment regulations made under section 24(5) of the National Environmental Management Act, 1998 (Act No. 107 of 1998).**

**Province is responsible for general waste, the National Department of Environmental Affairs is responsible for hazardous wastes.**

## Waste Legislation – Category A Basic Assessment Process



- **Storage of waste**
- **Reuse, recycling and recovery of general waste**
- **Treatment of general waste**
- **Construction of facilities for these activities**

Synergistics

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## Waste Legislation – Category B Environmental Impact Assessment Process



- **Reuse, recycling and recovery of hazardous waste**
- **Treatment of waste (above thresholds)**
- **Disposal of waste to land**
- **Construction of facilities for these activities**

Synergistics

Working Together



## Asbestos management & legislation



**Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)**

**Asbestos Regulations, 2001**

**Department of Labour**

Synergistics

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Discussions

Synergistics

Working Together

## Conclusions & Way Forward







Appendix A6:  
Copy of application form submitted to  
DENC



# **WASTE LICENCE APPLICATION FORM**

**PART 2: APPLICATION FORM FOR NEW LICENCE**



(For official use only)

File Reference Number:

Date Received:

Classification:


**WASTE LICENCE APPLICATION FORM**  
**in terms of the National Environmental Management: Waste Act, 2008 (No. 59 of 2008)**

**THE APPLICATION FORM MAY BE TYPED OR HAND-WRITTEN.**

**SECTION 1 – TYPE OF APPLICATION AND FACILITY:**

Indicate the type of application by marking with a cross and fill in the required sections only

TYPE OF APPLICATION	MARK	SECTIONS OF THE FORM TO BE FILLED IN
A new licence	<b>X</b>	Part 2 and see table of activities below for relevant sections of part 2
A licence amendment		Part 3 and Part 2 only if there are changes to the information or the applicant holds a permit issued in terms of section 20 of ECA (No. 78 of 1989) as amended.
A licence for closure		Part 4, Section 2, 3a, 3b, & 3c. of part 2 of this application form

Indicate the type of facility/operation and fill in the required sections only

TYPE OF ACTIVITY	MARK	SECTIONS OF THE FORM TO BE FILLED IN
Recycling and/or recovery Facility		All except Section 8
Storage and or transfer Facility		All except Section 8
Treatment facility		All except Section 8
Disposal facility	<b>X</b>	All

## Activities applied for

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

INDICATE THE NO. & DATE OF THE RELEVANT NOTICE:	ACTIVITY NUMBERS (AS LISTED IN THE WASTE MANAGEMENT ACTIVITY LIST) :	DESCRIBE EACH LISTED ACTIVITY:
GN 718	Category A: 3 (14)	The disposal of inert waste in excess of 25 tons and with a total capacity of 25 000 tons, excluding the disposal of such waste for the purposes of levelling and building which has been authorised by or under other legislation.

NB: Authorisation issued will only cover activities applied for and listed above. Activities added in the middle or after the processing of this authorisation may mean a totally new application.

## Application for Category A (equivalent to Basic Assessment)

Is this an application for a basic assessment (as defined in the EIA regulations)?

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

If YES, is a basic assessment report attached?

If NO, please indicate when the basic assessment report will be submitted:

End 2012	<input type="checkbox"/>
NO	<input type="checkbox"/>

Is information required as per Appendix B1 of this form attached?

If NO, please ensure that it is submitted together with the basic assessment report (BAR)

NO	<input type="checkbox"/>
----	--------------------------

## Application for Category B (equivalent to Scoping and Environmental Impact Assessment (EIA))

Is this an application for Scoping and EIA (as defined in the EIA regulations)?

NO	<input type="checkbox"/>
----	--------------------------

Please indicate when the Scoping Report and Plan of Study for EIA will be submitted:

N/A	<input type="checkbox"/>
-----	--------------------------

Please ensure that both Appendix B1 and B2 are completed and included in reports

The scoping report and/or the plan of study for EIA will be submitted after consultation with the competent authority

A consultation with the competent authority is hereby requested:

NO	<input type="checkbox"/>
NO	<input type="checkbox"/>

## SECTION 2: SITE IDENTIFICATION, LOCATION AND LANDUSE

Please indicate all the Surveyor-general Cadastral Code 21 digit site (erf/farm/portion) reference numbers:

C	0	4	1	0	0	0	0	0	0	0	0	0	5	4	1	0	0	0	0	0
G	A	M	A	G	A	R	A		5	4	1									
C	0	4	1	0	0	0	0	0	0	0	0	0	5	4	1	0	0	0	0	1
G	A	M	A	G	A	R	A		5	4	1									
<b>1</b>	<b>2</b>			<b>3</b>				<b>4</b>					<b>5</b>							

**LEGEND:**

1. Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)
2. Major Code (Registration Division)
3. Minor code
4. Property No (i.e. Farm No./Erf No./Holding Area No./Sheme No.)
5. Portion Number

If the property type is not surveyed, complete the following:

Full name of leader of village, community or tribal authority	N/A
Local Authority	N/A
Magisterial District	N/A
Tribal Authority/Council	N/A

Ownership of the property (mark only one with an X)

Property owned by applicant (100% Share value)	<b>X</b>	Property leased by applicant	
Property owned by applicant (Share value less than 100%)		The property is communal land	

## Size of Site and Classification

Size of facility for a waste management activity	~4 750m <sup>2</sup>
Area where the waste management activity takes place	Remaining Extent (RE) and Portion 1 of the Farm Gamagara 541, Gamagara Local Municipality.
Classification of facility in terms of climatic water balance	B-
Classification of Facility in terms of the type and the quantity of waste received	General waste, maximum total disposal of 25 000 tonnes

## Current land-use where the site is situated:

Industrial		Recreation	
Agriculture		Commercial	
Residential		Mining & quarrying	
Forestry		Wilderness areas	
Wetlands		Nature area	
Open spaces		X	

Other current land-use.....

	MARK YES/NO	SECTION IN THE REPORTS WHERE RELAVANT AUTHORISATION IS ATTACHED
Is a change of land-use or a consent use application required?	No	
Must a building plan be submitted to the local authority for approval?	No	

## Geographical coordinates of all external corner points of the site:

Number of corner	South			East		
1.....	27°	48'	25.1"	22°	57'	22.1"
2.....	27°	48'	23.4"	22°	57'	23.9"
3.....	27°	48'	09.8"	22°	57'	03.1"
4.....	27°	48'	11.5"	22°	57'	01.9"

## Site Address:

Building Name or Number	Remaining Extent (RE) and Portion 1 of the Farm Gamagara 541		
Street	N/A		
City/Closest Town	Kathu		
Province	Northern Cape Province		
Local Municipality	Gamagara Local Municipality		
District Municipality	John Taolo Gaetsewe District Municipality		
Property Description (Deeds Act or name of farm, town, city or agricultural holding)	Remaining Extent (RE) and Portion 1 of the Farm Gamagara 541		
Postal address	Private Bag X506		
	Kathu		
Postal code:	8446	Cell:	083 259 4687
Telephone:	053 739 2821	Fax:	053 739 2179
E-mail:	werner.voigt@angloamerican.com		

Local authority in whose jurisdiction the proposed activity will fall:

Contact person:

Postal address:

Postal code:

Telephone:

E-mail:

Gamagara Local Municipality		
Cornelius Joachim		
P O Box 1001, Kathu		
8446	Cell:	N/A
053 723 2261	Fax:	053 723 2021
joachimc@gamagara.co.za		

In instances where there is more than one local authority involved, please attach a list of local authorities with the contact person and contact details to this application.

## SECTION 3: CONTACT INFORMATION

### A) Person to contact about application (EAP)

First name & Surname	Marline Medallie		
Company name (if any): Company Registration/Identity number for individuals	Synergistics Environmental Services (Pty) Ltd		
	2003/030216/07		
Physical address:	Unit 5, 64 Wessels Road		
	Rivonia, 2128		
Postal address:	P O Box 1822		
	Rivonia		
Postal code:	2128	Cell:	082 782 5301
Telephone:	011 807 8225	Fax:	011 807 8226
Email Address	marline@synergistics.co.za		



## B) Person wishing to hold licence

First name & Surname of Applicant	<b>Conrad Bezuidenhout</b>		
Company name (if any):	<b>Sishen Iron Ore Company (Pty) Ltd</b>		
Company Registration/Identity number for individuals	<b>2000/011085/07</b>		
Physical address	<b>Centurion Gate Building 2B, 124 Akkerboom Rd</b>		
	<b>Centurion</b>		
Postal address	<b>P O Box 9679</b>		
	<b>Centurion</b>		
Postal code:	<b>0046</b>	Cell:	<b>083 609 1521</b>
Telephone:	<b>012 679 2140</b>	Fax:	<b>086 536 0040</b>
E-mail:	<b>conrad.bezuidenhout@angloamerican.com</b>		

## C) Landowner where activity takes place

First name & Surname	<b>Werner Voigt</b>		
Company name (if any):	<b>Sishen Iron Ore Company (Pty) Ltd</b>		
Company Registration/Identity number for individual(s)	<b>2000/011085/07</b>		
Physical address	<b>Sishen Mine Office, Kathu, Northern Cape</b>		
	<b>8446</b>		
Postal address	<b>Private Bag X506, Kathu</b>		
	<b>8446</b>	Cell:	<b>083 417 8307</b>
Telephone:	<b>053 739 2821</b>	Fax:	<b>053 739 2179</b>
E-mail:	<b>werner.voigt@angloamerican.com</b>		

## Operational times

PERIOD	FROM	UNTIL
Weekdays	07h00	17h00
Saturdays	07h00	14h00
Sunday		
Public holidays		

## SECTION 4: PROCESS/ACTIVITY DESCRIPTION:

<b>Project Title</b>	<b>Disposal of general waste into a Borrow pit.</b>
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## **Project Description:**

Please provide a brief description of the activities and operations at the site. Provide a flow chart of the operation showing all inputs and outputs of the process. Give particulars of the source, location, nature, composition and quantity of emission to the atmosphere, surface water, sewer, and ground-water including noise emissions. Solid waste must be in tons and specify units for liquids and gases.

The Sishen Iron Ore Company (SIOC) is in the process of relocating linear infrastructure, which currently runs through the Sishen Iron Ore Mine (Sishen Mine) property, through a project known as the Sishen Western Expansion Project (SWEP). The SIOC maintains that the relocation is necessary due to the continued progression of the opencast mine pit in a westerly and south-westerly direction. The infrastructure earmarked for relocation are not all mining-related and are owned and operated by a variety of stakeholders including Eskom, Transnet Limited, Sedibeng Water Board, SIOC and the Northern Cape Department of Roads and Public Works. SIOC has the necessary environmental approvals in place and construction of the new infrastructure is underway.

Material for the construction of the relocated infrastructure has been sourced from various borrows pits along the servitude route. These borrow pits are also located on land owned by SIOC and were approved by the DMR (DMR Ref: NC 30/5/1/3/2/1/2003 EM).

The existing services in the old infrastructure corridor now require being decommissioned and demolished. The demolition of these services will generate significant volumes of materials which need to be managed in a responsible and compliant manner. Portions of the materials generated during the demolition may be classified as wastes and the activities required to manage these wastes may fall within the ambit of the National Environmental Management: Waste Act, 2008.

The bulk of the materials will be reclaimed for further use by Transnet and Eskom and will not require disposal. Other metal materials will be sold to external parties as scrap. In order to substantially reduce transportation costs, SIOC has proposed that the inert waste and clean building rubble be disposed to a SWEP borrow pit. This material can be utilised to backfill portions of the borrow pit prior to rehabilitation. A maximum of 25 000 tonnes of inert waste will be disposed into the borrow pit.

Specialist studies and analysis have been conducted in order to conform that the material to be disposed in the borrow pit does not contain any hazardous substances.

## SECTION 5: WASTE QUANTITIES

Indicate or specify types of waste and list the estimated quantities expected to be managed daily (should you need more columns, you are advised to add more).

Hazardous waste	Non hazardous waste	Total waste handled (tonnes per day)
	Inert waste from building and railway line demolition	25 000 tonnes (in total)

Source of information supplied in the table above Mark with an "X"

Determined from volumes

Determined with weighbridge/scale

Estimated

X

### Recovery, Reuse, Recycling, treatment and disposal quantities:

Indicate the applicable waste types and quantities expected to be disposed of and salvaged annually:

TYPES OF WASTE	MAIN SOURCE (NAME OF COMPANY)	QUANTITIES		ON-SITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE DISPOSAL
		TONS/MONTH	M <sup>3</sup> /MONTH	method & location	method location and contractor details	
Inert Waste	SIOC	25 000 (in total)	N/A	N/A	Inert waste will be collected at various demolition sites and transported by truck to the disposal facility (borrow pit). Contractor details to be confirmed	

## SECTION 6: GENERAL

Prevailing wind direction (e.g. NWW)

November – April

WNE

May - October

ENE

The size of population to be served by the facility

	Mark with "X"	Comment
0-499	X	
500-9,999		
10,000-199,999		
200,000 upwards		

**The geological formations underlying the site:**

Granite  
Shale  
Sandstone



Quartzite  
Dolomite  
Dolerite



Other: **Hematite**

**SECTION 7: COMPETENCE TO OPERATE SITE**

It is imperative that the holder of the waste licence is a fit person in terms of section 59 of the NEMWA (59 of 2008). To assess the holder's competence to operate the site, please disclose the following:

**Legal compliance**

	YES/NO	DETAILS
Has the applicant ever been found guilty or issued with a non compliance notice in terms of any national environmental management legislation?	No	
Has the applicant's licence in terms of the Waste Act 2008 ever been revoked?	No	
Has the applicant ever been issued with a non compliance notice or letter in terms of any South African Law?	No	

***NB:*** Details required above include any information that the applicant wants the Department to take into consideration in determining whether they are a "fit person" and this includes reasons why the offence happened and measures in place to prevent recurrence

## Technical competence

What technical skills are required to operate the site?

- Project manager
- Construction manager
- Construction team
- Environmental Control Officer

How will the applicant ensure and maintain technical competency in the operation of the site?

By retaining a permanent Environmental Control Officer on site, by employing good construction management practices and by managing compliance through regular audits and inspections.

Details of applicant's experience and qualification along with that of relevant employees must be summarised as shown in the table below:

NAME	POSITION	DUTIES AND RESPONSIBILITIES	QUALIFICATIONS AND EXPERIENCE
Conrad Bezuidenhout	Senior Project Manager Kumba Iron Ore	Execute the project scope according to Anglo and government specifications.	Higher National (Mechanical) Diploma ,Project Management Diploma, Business Management Diploma
Peter Mullen	Construction manager	Manage the construction work to ensure it is executed in an integrated fashion, to the required technical, safety and health standards	National Technical Certificate Part Three  Ten years' experience in the construction and project management environment.
Rudolph Pothas	Environmental Control Officer	Ensuring onsite compliance to the EMP, KIO procedures, licences/ permits and governmental legislation.	BSc Environmental Sciences, BSc (Honours) Environmental Management and Auditing, EMI training certificate

## Financial Provisions

Provide a plan of estimated expenditure for the following:

	ATTACHED/NOT ATTACHED	SECTION OF THE REPORT WHERE IT IS ATTACHED
Environmental Monitoring	NOT ATTACHED  Expenditure to be determined.	
Provision and replacement of infrastructure	N/A	

Restoration and aftercare

N/A	
-----	--

## SECTION 8: LANDFILL PARAMETERS

The method of disposal of waste:

Land-building

Land-filling

Both

The dimensions of the disposal site in metres

	At commencement	After rehabilitation
Height/Depth	~9 metres below ground level	To be determined
Length	~95 metres	To be determined
Breadth	~50 metres	To be determined

The total volume available for the disposal of waste on the site:

Volume Available	Mark with "X"	Source of information (Determined by surveyor/ Estimated)
Up to 99	<input type="checkbox"/>	
100-34- 999	<input checked="" type="checkbox"/>	Determined by a qualified quantity surveying company.
35 000- 3,5 million	<input type="checkbox"/>	
>3,5 million	<input type="checkbox"/>	

The total volume already used for waste disposal:

(a) Will the waste body be covered daily

(b) Is sufficient cover material available

(c) Will waste be compacted daily

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

If the answers (a) and/or (b) are No, what measures will be employed to prevent the problems of burning or smouldering of waste and the generation of nuisance?

The proposed materials to be disposed in the borrow pit consist of the inert waste and clean building rubble. Very limited to no flammable materials will be disposed.

The Salvage method

Mark with an "X" the method to be used.

At source

Recycling installation

Formal salvaging

Contractor

No salvaging planned

<b>X</b>
----------

**Fatal Flaws for the site:**

Indicate which of the following apply to the facility for a waste management activity:

Within a 3000m radius of the end of an airport landing strip

NO

Within the 1 in 50 year flood line of any watercourse

NO

Within an unstable area(fault zone, seismic zone, dolomitic area, sinkholes)

NO

Within the drainage area or within 5 km of water source

NO

Within an area with shallow and/or visible water table

NO

Within an area adjacent to or above an aquifer

NO

Within an area with shallow bedrock and limited available cover material

NO

Within 100 m of the source of surface water

NO

Within 1km from the wetland

NO

Indicate the distance to the boundary of the nearest residential area

2 375 metres

Indicate the distance to the boundary of the industrial area

12 760 metres

**Wettest six months of the year**

November- April

**X**

May -October



For the wettest six month period indicated above, indicate the following for the preceding 30 years

	Total rainfall for 6 months	Total A-pan evaporation for 6 months	Climatic water balance
For the 1 <sup>st</sup> wettest year	685.9mm (1987/1988)	Information is not available	
For the 2 <sup>nd</sup> wettest year	580.5mm (1990/1991)		
For the 3 <sup>rd</sup> wettest year	580.5mm (2010/2011)		
For the 4 <sup>th</sup> wettest year	490.5mm (1999/2000)		
For the 5 <sup>th</sup> wettest year	469.2mm (1988/1989)		
For the 6 <sup>th</sup> wettest year	443.5mm (2005/2006)		
For the 7 <sup>th</sup> wettest year	385.0mm (2009/2010)		
For the 8 <sup>th</sup> wettest year	377.5mm (2001/2002)		
For the 9 <sup>th</sup> wettest year	372.5mm (2000/2001)		
For the 10 <sup>th</sup> wettest year	343.7mm (1993/1994)		

**Location and depth of ground water monitoring boreholes:**

Codes of boreholes	Borehole locality	Depth (m)	Latitude			Longitude		
			°	'	''	°	'	''
N/A.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''
.....	.....		°	'	''	°	'	''

**Location and depth of landfill gas monitoring test pit:**

Codes of boreholes	Borehole locality	Latitude			Longitude		
N/A.....	.....	o	1	11	o	1	11
.....	.....	o	1	11	o	1	11
.....	.....	o	1	11	o	1	11
.....	.....	o	1	11	o	1	11
.....	.....	o	1	11	o	1	11
.....	.....	o	1	11	o	1	11
.....	.....	o	1	11	o	1	11
.....	.....	o	1	11	o	1	11

## SECTION 9: DECLARATIONS

### The independent Environmental Assessment Practitioner

I, **Marline Medallie**, declare under oath that I –

- act as the independent environmental assessment practitioner in this application ;
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2006;
- have and will not have no vested interest in the proposed activity proceeding;
- have no, and will not engage in, conflicting interests in the undertaking of the activity;
- undertake to disclose, to the competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2006;
- will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- will keep a register of all interested and affected parties that participated in a public participation process; and
- will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.

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Signature of the Environmental Assessment Practitioner:

**Synergistics Environmental Services (Pty) Ltd**

Name of company:

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Date:

---

Signature of the Commissioner of Oaths:

---

Date:

---

Designation:

Official stamp (Above)

## The Applicant

I, **Conrad Bezuidenhout**, declare under oath that I -

- Am, or represent, the applicant in this application;
- appointed the environmental assessment practitioner as indicated above to act as the independent environmental assessment practitioner for this application;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2006, including but not limited to –
- costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
- costs incurred in respect of the undertaking of any process required in terms of the regulations;
- costs in respect of any fee prescribed by the Minister in respect of the regulations;
- costs in respect of specialist reviews, if the competent authority decides to recover costs; and
- the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these regulations;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify, the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action for which the applicant or environmental assessment practitioner is responsible in terms of these regulations; and
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to an appeal being decided in terms of these regulations.

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Signature of Applicant

**Sishen Iron Ore Company (Pty) Ltd**

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Name of company:

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Date:

---

Signature of the Commissioner of Oaths:

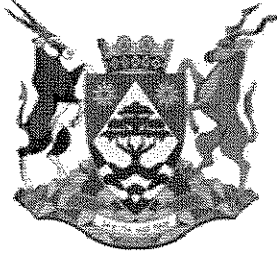
---

Date:

---

Designation:

Official stamp (Above)



**the denc**

---

Department:  
Environment & Nature Conservation  
NORTHERN CAPE PROVINCE  
REPUBLIC OF SOUTH AFRICA

Private Bag X6102, Kimberley, 8300, SASKO Building, Tel: 053-807 7430, Fax: 053-831 3530

Enquiries :  
Dipatlisiso :  
Navrae : D Kgosi  
Imibuzo :

Date :  
Letlha :  
Datum: 04 September 2012  
Umhla :

Reference :  
Tshupelo :  
Verwysing : NC/JTG/SISH6/2012  
Isalathiso :

Ms Marline Medallie

Synergistic Environmental Services (Pty) Ltd

P O BOX 1822

Rivonia

2128

Fax: (011) 807 8226

Dear Madam

**WASTE LICENSE APPLICATION FOR SISHEN IRON ORE COMPANY (PTY) LTD IN TERMS OF SECTION 20(b) OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008 (ACT 59 OF 2008)**

The Department acknowledges receipt of your waste license application under Category A:4 (14): The disposal of inert waste in excess of 25 tons and with a total capacity of 250 000 tons, excluding the disposal of such waste for the purpose of levelling and building which has been authorized by or under any authorization on the 31 August 2012

The application has been granted the following reference number: NC/JTG/SISH6/2012 . Please quote this reference every time you make an enquiry. The case officer of the project is myself, Mrs D Kgosi and I can be contacted on (053) 8077430/ 082 525 3332

Kindly take note and remind your client that commencement of a listed activity without a license is unlawful and strict action will be taken against that

Yours sincerely

A handwritten signature in black ink, appearing to be 'Dineo Kgosi', written over a horizontal dashed line.

Dineo Kgosi (04 / 09 / 2012)

Principal Environmental Officer

**Cc: Mr Werner Voigt**

**Sishen Iron Ore Company (Pty) Ltd**

Appendix D:  
Environmental Management Programme

## DRAFT ENVIRONMENTAL MANAGEMENT PROGRAMME

This Draft Environmental Management Programme (EMPr) sets out mitigation/management measures for the potential impacts identified for the proposed disposal of inert waste and clean building rubble to a SWEP borrow pit. Due to the nature of the project, impacts of low to moderate significances are anticipated during the disposal process. On receipt of the environmental authorisation, the EMPr will be amended to include additional conditions as set out by the Northern Cape Department of Environment and Nature Conservation (DENC). The EMPr will then become a legally binding document to the applicant, all its contractors and their employees.

The tables below outline the proposed action plans and mitigation measures to reduce the potential negative impacts associated with the proposed disposal activities.

### 1. Planning and Design

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
Ensure the lawful and practicable disposal of inert waste in the borrow pit.	Only inert waste may be considered for disposal to the borrow pit. Planning of waste disposal must consider that the disposal must not exceed the volume of the void or 25 000 tons, whichever is the lesser.	SIOC	Prior to disposal

### 2. Disposal

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
<b>2.1. APPOINTMENTS AND DUTIES</b>			
Define organisational and administrative arrangements for	The Sishen Iron Ore Company (Pty) Ltd (SIOC) to appoint a Site Manager	SIOC	Prior to disposal



OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
EMP implementation. Adequate management and mitigation of environmental impacts.	(SM) to oversee all aspects of the disposal activities and implementation of the EMPr.		
	SIOC to appoint a capable and suitably qualified Environmental Control Officer (ECO) to monitor compliance with the EMPr. The competent authority must be notified of the details and contact numbers of the appointee in writing for record and communication purposes.	SIOC	Prior to disposal
	Sishen Mine Safety Health Environment and Quality (SHEQ) department representative to undertake monthly checks of disposal activities and propose / request mitigation / management measures if and when required.	SIOC	Monthly
	Appointed contractors to nominate a capable and suitably qualified staff member as Environmental Representative (EREP) to supervise implementation of the EMPr as it applies to the nature of the contract with SIOC.	Site Manager (SM)	Prior to disposal
	The applicable conditions of this EMPr must form part of all contractors' and sub-contractors' conditions of contract. A performance based requirement with regards to environmental impact management must be included in all contracts.	SIOC	Prior to disposal
	Procedures for the regular inspection and maintenance of the site must be in place to ensure that environmental degradation is prevented and possible impacts arising from the operation are mitigated.	SIOC, Contractor/ EREP & ECO	Ongoing
	A copy of the EMPr (this document) must always be available on site for	SIOC, Contractor/	Ongoing

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
	inspection by authorised officers.	EREP & ECO	
<b>2.2. PUBLIC AND LABOUR RELATIONS</b>			
Maintain transparent communication with project affected community. Keeping project affected community up to date with developments at Sishen Mine and surrounding area. Maintain community based "license to operate".	Include the waste disposal to borrow pits as an item on the agenda of the Sishen Mine environmental monitoring committee meetings.	ECO	Ongoing, quarterly
	Have a complaints register available at the borrow pit for any person to record complaints regarding the operations.	SM	Ongoing
	ECO to investigate complaints and provide feedback to the complainant within 72 hrs of being reported.	ECO	Ongoing
	Any complaints regarding the development must be brought to the attention of the DENC. The complaints register must be kept up to date for inspection by the DENC.	ECO	Ongoing, quarterly
<b>2.3. TRAINING, AWARENESS AND COMPETENCE</b>			
Ensure adequate knowledge and understanding of EMPr stipulations, policies and procedures. Understanding the interface between the work environment and environmental protection.	All construction workers, suppliers and service providers entering the disposal site to attend and undergo environmental awareness induction training sessions covering key environmental issues pertaining to the disposal site and surroundings with regard to protection of the natural environment, the conditions of the environmental authorisation, the requirements of the EMPr and the rights of landowners on whose properties disposal activities take place.	Contractor/ EREP & ECO	Upon appointment and before entering the disposal site
<b>2.4. WASTE DISPOSAL</b>			
Ensure the lawful disposal of inert waste in a manner that	The footprint of the borrow pit available and suitable for disposal must be	SIOC	Prior to disposal

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
minimises environmental risks and facilitates the rehabilitation of the borrow pit.	demarcated and marked on a site plan.		
	The location and depth of waste in the final waste body must be planned to ensure a surface profile that is compatible with the adjacent area and is free draining.	SIOC	Prior to disposal
	Only inert waste (as per the NEMWA definition) may be disposed to the site. No other general or hazardous waste is permitted.	SM	Ongoing
	Waste disposal may only take place within the approved footprint.	SM	Ongoing
	Disposed waste must be placed in terms of the disposal plan.	SM	Ongoing
	The disposed waste must be compacted to reduce future subsidence.	SM	Ongoing
	No more than 25 000 tonnes of inert waste to be disposed into the borrow pit.	SIOC	Ongoing
	Waste disposal at the borrow pit must be completed within 2 years of disposal operations commencing.	SIOC	2 years
<b>2.5. SOIL</b>			
Optimise availability and viability of soil as growth medium to enable sustainable vegetation cover after rehabilitation. Maximise topsoil availability for rehabilitation at the completion of disposal activities.	Waste may not be disposed of onto any area with topsoil. If necessary strip and stockpile the topsoil before waste disposal.	Contractor/ EREP	Ongoing
	Stockpiled topsoil that has been stripped during the excavation of the borrow pit should not be disturbed during the disposal process.	Contractor/ EREP	Ongoing
<b>2.6. SPILL PREVENTION, RESPONSE AND CLEAN-UP</b>			
Define and implement control measures for hazardous spill prevention, and ensure adequate response and clean-up measures are put in place.	Soil polluted by a spill of chemicals, oil or diesel shall be handled as hazardous waste if remediation in situ has not been authorised by the ECO.	Contractor & ECO	Ongoing

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
	Construction vehicles shall be serviced regularly according to a pre-planned maintenance programme in order to minimise oil drips and spillages. Vehicles with oil drips are not allowed on site.	Contractor & ECO	Ongoing
	All petroleum products to be stored in lined and bunded area.	Contractor & ECO	Ongoing
	Dispensing of petroleum products to take place over a drip tray or within a lined and bunded area.	Contractor & ECO	Ongoing
	Use drip trays under machinery, vehicles and equipment with minor fuel or hydraulic fluid leaks.	Contractor & ECO	Ongoing
	Repairs and maintenance to machinery, vehicles and equipment to be undertaken in workshop. Any on-site emergency repairs to be undertaken over impervious surfaces.	Contractor & ECO	As required
<b>2.7. NOISE</b>			
Develop and implement appropriate noise control measures according to risk profile of disposal site and proximity of residences.	Noise levels and other disturbances in close proximity to residences or built-up areas to be limited to daylight hours.	Contractor/ EREP & ECO	Ongoing
	The contractor shall ensure that his workers do not create unnecessary noise such as hooting or shouting.	Contractor & ECO	Ongoing
	The movement of construction traffic along public roads shall be kept to a minimum.	Contractor & ECO	Ongoing
	Maintain machinery, vehicles and equipment in good condition to prevent unnecessary noise outputs	Contractor & ECO	Ongoing
	Complaints regarding noise to be registered in the complaints register and to be investigated and managed in accordance with the incident reporting	EREPA & ECO	As Required

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
	<p>procedure.</p> <p>Noise levels and other disturbances in close proximity to residences or built-up areas to be limited to daylight hours.</p>	Contractor & ECO	Ongoing
<b>2.8. DUST</b>			
Develop and implement appropriate dust control measures according to the risk profile of the project.	Unsealed access roads and road verges of sealed roads should be watered by means of water carts.	SIOC & ECO	Ongoing
	Unsealed laydown and vehicle parking areas should be watered as required by means of water carts.	SIOC & ECO	Ongoing
	Speed limits on unsealed roads will be limited to a maximum speed consistent with the minimisation of dust generation. Nominal speed limit of 40 km/k applies unless otherwise marked.	SIOC & ECO	Ongoing
	All dust control equipment, such as water carts and sprays, shall be operated and maintained to prevent or minimise fugitive dust emissions.	SIOC & ECO	Weekly
	Complaints regarding dust to be registered in the complaints register and to be investigated and managed in accordance with the incident reporting procedure.	EREP & ECO	As Required
<b>2.9. BIODIVERSITY</b>			
<p>Prevent the alteration of natural ecological systems and processes.</p> <p>Minimise impacts on protected tree species, drainage channels, the Gamagara River, pans, rocky outcrops and</p>	Disturbance of natural vegetation beyond the footprint of the disposal site is not permitted. The footprint of disturbance must be kept to the minimum required for the activity and reasonable vehicular and equipment movement.	Contractor/ EREP & ECO	Ongoing

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
other areas identified as sensitive.	Trapping, catching and hunting of all animals are prohibited.	Contractor/ EREP & ECO	Ongoing
	Collection of any plant material from natural veld areas is prohibited.	Contractor/ EREP & ECO	Ongoing
	Damage to and removal of protected species of vegetation is prohibited unless permits for removal from the Department of Agriculture, Fisheries and Forestry (DAFF) and the DENC are in place (licenses and permits are required where protected tree and plant species cannot be avoided and have to be removed, respectively).	Contractor/ EREP & ECO	Prior to removal of protected tree and plant species
	Remove any alien or invasive plants that have established at the borrow pit area.	Contractor/ EREP & ECO	Ongoing
<b>2.10. PUBLIC SAFETY AND SECURITY</b>			
Implementation of adequate access control in order to prevent harm and the illegal dumping of any material.	The access gate to the disposal site will be controlled and only authorised vehicles and persons will be allowed access.	Contractor/ EREP	Ongoing
	Contract a security company to patrol the disposal site for the duration of disposal period.	Contractor/ EREP	Ongoing
	The disposal site will be fenced to prevent unauthorised people and animals accessing the area.	Contractor/ EREP	Ongoing
	Fences and gates will be maintained and all damage to fences and gates shall be properly fixed and repaired as soon as required and to the satisfaction of the landowners.	Contractor/ EREP	Ongoing
<b>2.11. MACHINERY, EQUIPMENT, VEHICLE MOVEMENT AND ROADS</b>			

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
Minimise disposal-related disturbances and public safety risks during the use of machinery, equipment and vehicles.	Maintain machinery, vehicles and equipment in good condition to prevent unnecessary noise output, emissions, and risks of hydrocarbon spills (fuels and lubricants).	Contractor/ EREP	Ongoing
	Minimise movement of traffic along public roads as far as reasonably possible.	Contractor/ EREP	Ongoing
	Road sections affected by the disposal operations to be maintained in an acceptable condition.	Contractor/ EREP	Ongoing
	No new roads and tracks will be created, unless approved by the ECO.	Contractor/ EREP & ECO	Ongoing
	All vehicles to adhere to prescribed / agreed speed limits as indicated on road signage and/or specific instructions or procedures issued by the SM or ECO to prevent accidents and road damage.	Contractor/ EREP & ECO	Ongoing
	Upon completion of disposal activities, all access roads used during the disposal process must be rehabilitated to their original condition.	Contractor/ EREP & ECO	At the end of the disposal process
<b>2.12. HERITAGE RESOURCES</b>			
Avoid disturbance or loss of important heritage sites and artefacts.	An archaeologist should immediately be notified should any historical, archaeological, cultural or heritage artefacts be unveiled.	Contractor/ EREP	As required
<b>2.13. INCIDENT REPORTING AND MANAGEMENT</b>			
Adequately assess root cause of incidents in order to develop and implement appropriate corrective actions and prevent incidents from recurring.	An incident reporting procedure to be put in place and kept up to date.	SIOC, SM, Contractor/ EREP, ECO & EA	At start of disposal, ongoing thereafter
	Record all environmental incidents in a register, and ensure investigation,	Contractor/ EREP	As required

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
	follow-up and close out of all incidents.	& ECO	
	After incident implement appropriate corrective actions, including measures to prevent recurring incidents.	Contractor/ EREP & ECO	As required
<b>2.14. WASTE MANAGEMENT</b>			
Adhere to waste management principles of avoidance, minimisation, reuse, recycling, treatment and correct disposal methods. Define and implement control measures to prevent inappropriate storage, treatment and disposal of waste.	Provide separate receptacles for the collection and storage of general and hazardous waste generated at the site.	Contractor/ EREP	As required.
	All general and hazardous waste generated at the site are to be disposed at an appropriately registered waste disposal facility.	Contractor/ EREP & ECO	Ongoing
	Littering is prohibited. Conduct regular inspections for and collection of litter.	Contractor/ EREP & ECO	Ongoing
	Burning of waste is prohibited.	Contractor/ EREP & ECO	Ongoing
<b>2.15. ABLUTION FACILITIES AND SEWERAGE TREATMENT</b>			
Define and implement control measures to ensure adequate treatment and disposal of sewage waste.	Provide chemical toilets for personnel at the disposal site.	Contractor/ EREP & ECO	Ongoing
	Disposal of chemical toilet waste to be in accordance with the waste management procedure to be issued by the ECO.	Contractor/ EREP & ECO	Ongoing
<b>2.16. FIRES</b>			
Preserve grazing land and natural habitats. Protect private property.	Open fires for heating and cooking purposes will not to be allowed on site or near areas where there is a risk of starting a veld fire.	Contractor/ EREP & ECO	Ongoing
	A trained fire response team will be in place to control fires as and when required.	ECO	Ongoing



OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
<b>2.17. COMPLIANCE MONITORING</b>			
Provide information and ensure early detection of the impact of the construction activities upon the receiving environment. Recognise environmental changes in order to enable analysis of their cause. Maintain accurate records and transparent communication with regulatory bodies. Keeping regulatory bodies up to date with the development.	Records relating to the compliance/non-compliance within the conditions of the EMPr must be kept in good order.	Contractor/ EREP & ECO	Ongoing
	Officials employed by the DENC shall be given access to the property for the purpose of assessing and/or monitoring compliance with the conditions contained in the EMPr.	Contractor/ EREP & ECO	Ongoing
	SIOC will appoint a capable and suitably qualified and independent external Environmental Auditor (EA) to conduct audits to monitor compliance with the EMPr. The EA must be to the satisfaction of DENC.	SIOC	Prior to disposal, on a quarterly basis

### 3. Rehabilitation

OBJECTIVES	MANAGEMENT ACTION	RESPONSIBILITY	TIME PERIOD FOR IMPLEMENTATION
<b>REHABILITATION</b>			
Minimise residual impacts and ensure physical, ecological and chemical stability of site. Ensure human safety.	The disposed waste must be compacted and shaped to ensure a profile that is compatible with the surrounding areas and is free draining.	Contractor	At the end of the disposal process
	No slopes on the waste body may be angled greater than 1:3.	Contractor	At the end of the disposal process
	The waste body must be covered with a minimum growth medium of 300 mm in depth. Topsoil stockpiled during the excavation of the borrow pit should be spread evenly to cover the disposed materials. Should the	Contractor	At rehabilitation

	amount of topsoil available be limited to less than 100 mm a growth medium should be developed (mixing of calcrete or vegetation with topsoil) to create a soil of at least 300 mm.		
	A self-sustaining vegetation sward must be established on all disturbed areas. Naturally occurring indigenous species should be used in the re-vegetation of disturbed areas. It is advised to use at least 5 different species. Within a period of 1 year the vegetation must provide groundcover that is comparable to that found naturally.	Contractor, ECO & EA	As required
	No large rocks may protrude the surface without consent from the ECO.	Contractor ECO & EA	At the end of the disposal process
	All roads and compacted areas that were used for access to the borrow pit need to be ripped to 300 mm, covered with topsoil and seeded.	Contractor/ EREP, ECO & EA	At the end of the disposal process
	All surface infrastructure that is not required by the land owner must be removed and all introduced materials must be removed and disposed.	Contractor/	At the end of the disposal process
	The ECO needs to provide SIOC with a report stating that the rehabilitation of the borrow pit is sufficient and no further action is required.	ECO	At the end of the disposal process
	Vegetation growth should be monitored to assess if successful establishment has taken place. Should vegetation not establish, additional seeding needs to be considered. This should take place in consultation with the ECO.	ECO & EA	For 1 year after the end of the disposal process
	Subsidence and erosion must be monitored across the waste body and repairs affected.	ECO & EA	For 1 year after the end of the disposal process

	<p>Alien and invasive plants need to be monitored and any plants establishing on the disturbed areas removed.</p>	<p>ECO &amp; EA</p>	<p>For 1 year after the end of the disposal process</p>
	<p>Soils that have become compacted through the disposal activities must be loosened to an appropriate depth to allow seed germination.</p>	<p>Contractor/ EREP</p>	<p>At end of disposal</p>