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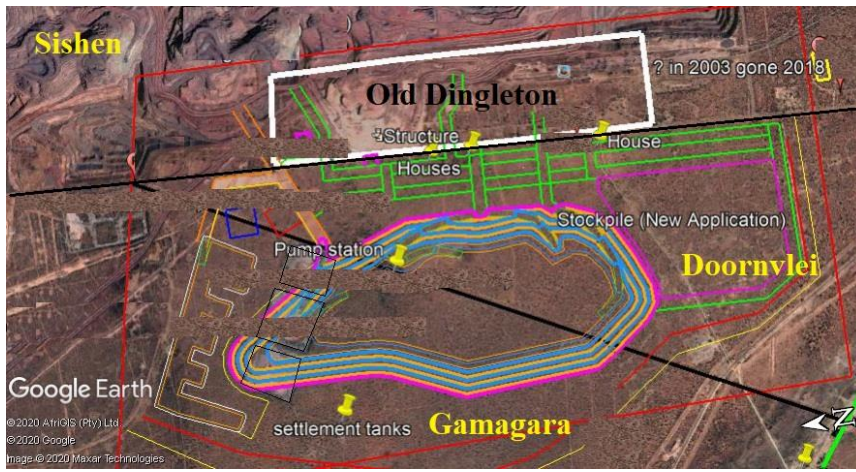
Request for re-assessment of alternatives for dumpsites and infrastructure¹

Regarding the

1st phase H.I.A. of a proposed extension and upgrading at Sishen Mine, also known as phase two of the Sishen Western Expansion Project that is located on portions of Gamagara and Doornvlei, Northern Cape

For Sishen Mine

Project ANG-SIS-20-02-24



Project coordinator: - Shangoni management services.



Report prepared by: -

Date. June 2021

SIDNEY MILLER.

B.Sc (Engineering) Civil, M. (Architecture) Conservation. Asapa member no 087.

¹ Shangoni e-mail "Inclusion of alternatives in the specialist report" of 25th June 2021, refers

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1.1. Location and GPS Coordinates of the study area



Fig. 01. This image shows the location of the study area. The red line indicates the extent of the area investigated. (Google Earth 2020.)

1.2. G.P.S. Coordinates of the limits of the site under assessment.

Beacon	Degrees south	Degrees east	Beacon	Degrees south	Degrees east
1	27°45'34.34"S	22°57'15.40"E	2	27°45'59.77"S	22°59'29.88"E
3	27°49'9.39"S	22°59'21.27"E	4	27°49'6.13"S	22°57'18.17"E

Fig. 02. Above table shows G.P.S. coordinates that are defining the study area. 1 being the top left corner and then in clockwise order. (GPS coordinates from Google Earth.)

1.3. Description of the site



Fig. 03. Birds-eye image of the extent of the Sishen Mine. (Wikipedia.)

The Sishen Iron Ore Mine commenced in 1946, later to become part of an export project via a new railway line to Saldanha Bay. Initially it was located on the farm Sishen, but during its more than seventy years of existence it expanded to include Kathu, Sacha, Simms, Gamagara, Doornvlei Sekgame, Bruce and Lylyveld. Owing to the rich iron ore deposits other mines such as the one at Beeshoek as well as other smaller operations followed in the general region.

The present project is not for ore extraction, but for a proposed new stockpile that is proposed to be located directly west of the old Sishen (Dingleton) town on the farms Doornvlei and Gamagara.

2. Contact Details.

2.1. Client.

Sishen Mine

Contact Person: Environmental Manager Sishen mine. Nadia Williams

E-mail address nadia.williams@angloamerican

2.2. Consultants.

<p>Environment.</p> <p>Shangoni Management Services.</p> <p>Physical address. Unit C8, Block@Nature, 472 Botterklapper Street, The Willows, 0081.</p> <p>Postal address. PO Box 74726, Lynnwood Ridge, Pretoria, 0040.</p> <p>Contact persons. Minnette Le Roux. E-mail. minnette@shangoni.co.za Lee-Anne Fellows. E-mail. leeanne@shangoni.co.za</p> <p>Telephone. (27)12 807 7036.</p>	<p>Heritage.</p> <p>Sidney Miller.</p> <p>Physical address. 328 Malherbe Street, Capital Park, 0084, Tshwane.</p> <p>Postal address. Postnet suite 427, P.B. X15, Menlo Park, 0102, Tshwane.</p> <p>Contact person. Sidney Miller. Telephone. 082 939 6536. E-mail. sidneymears@gmail.com.</p>
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2.3. Type of Development.

Mining.

2.4. Zoning of Site.

Mining.

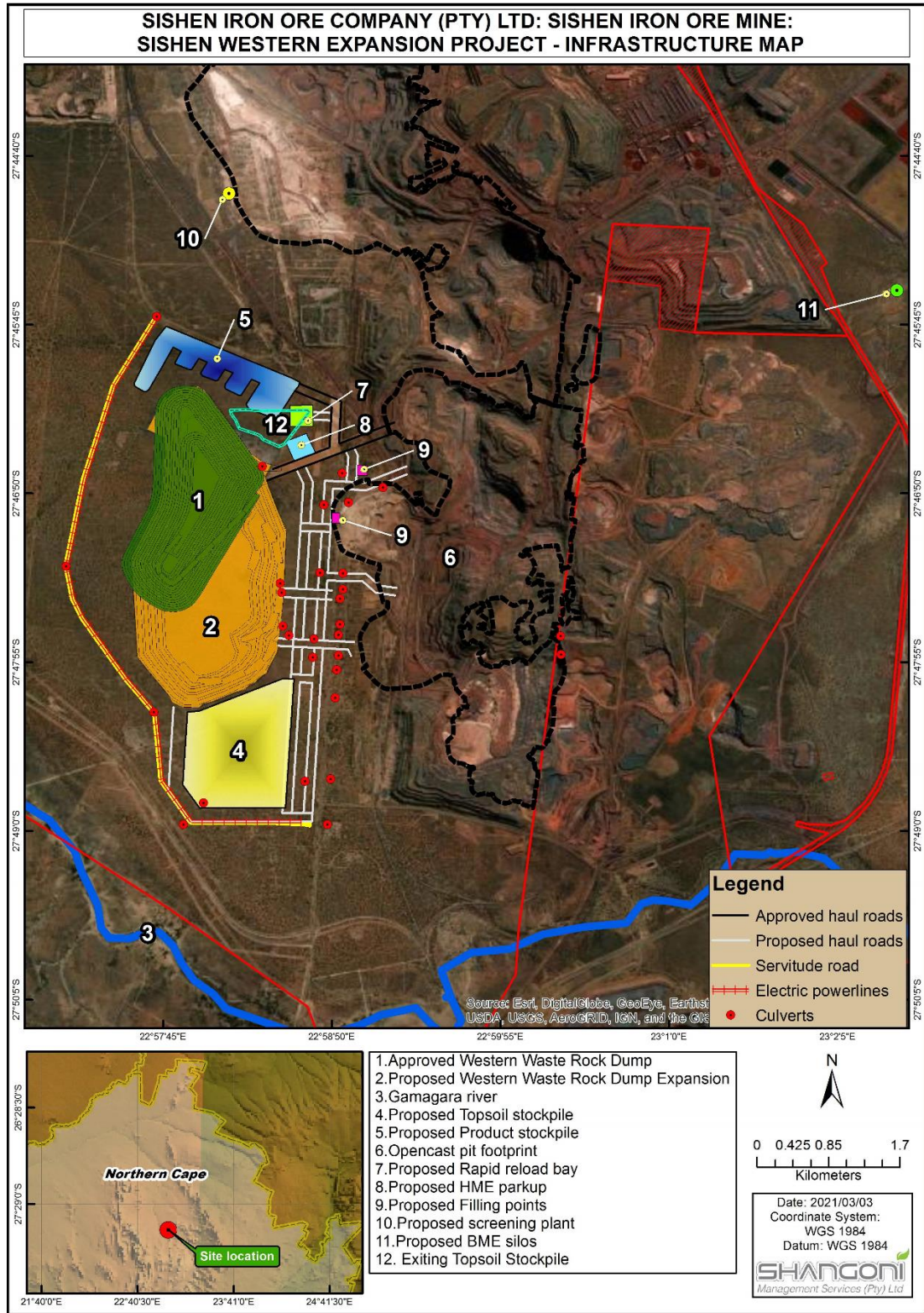


Fig. 04. Infrastructure. (Shangoni e-mail, Inclusion of alternatives in the specialist report of 25th June 2021, refers.)

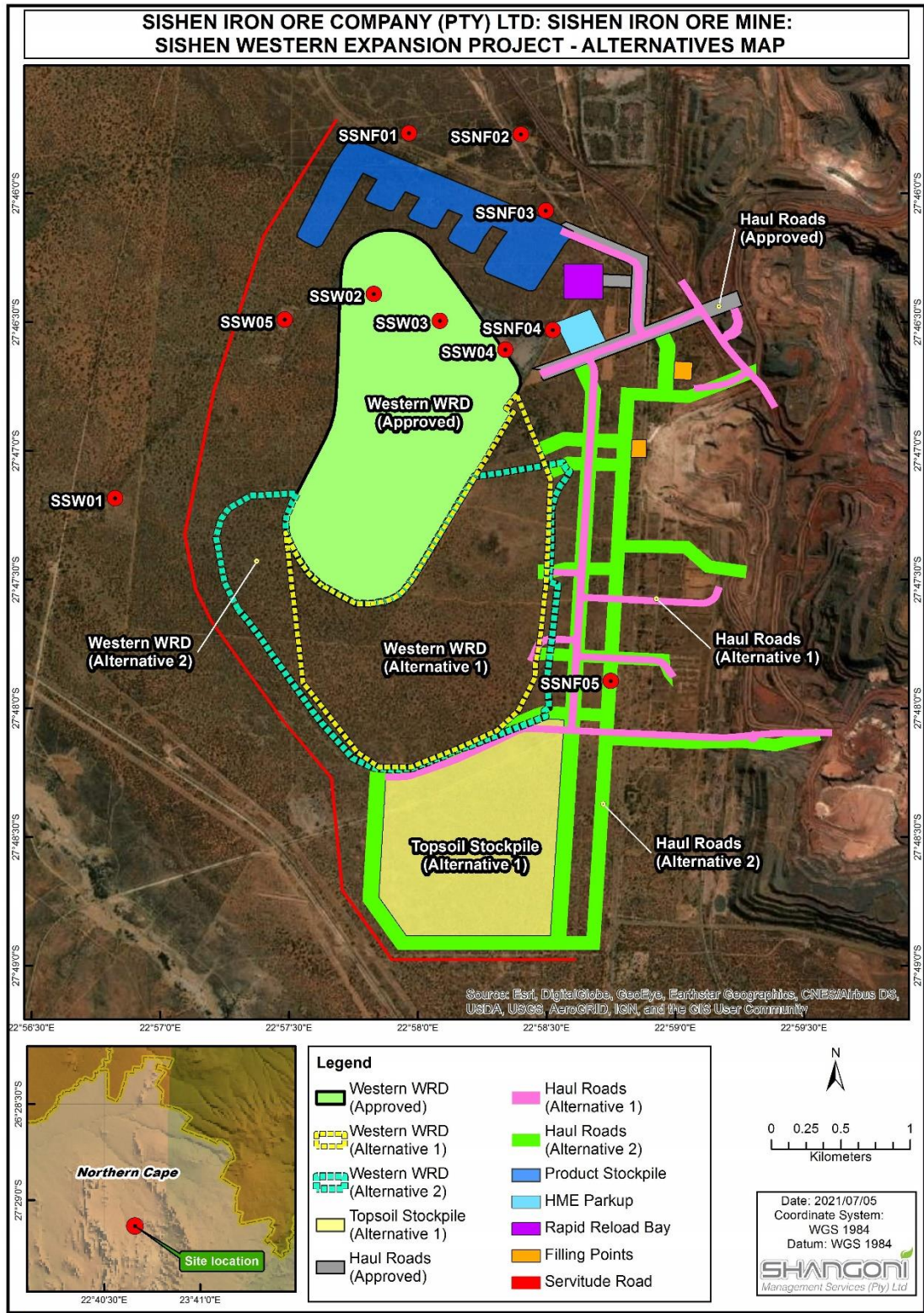


Fig. 05 “Alternatives”. (Shangoni e-mail, Inclusion of alternatives in the specialist report of 25th June 2021, refers.)

3. Executive Summary

3.6. Alternatives.

As can be seen above on the locality plan (fig. 01) of the original study area above, and “the request for alternatives” (fig. 05.), the areas involved has already been cleared of possible heritage remains in the original 1st Phase HIA of November 2020.

3.7. Recommendation.

According to the requirements of the National Heritage Act, there is no reason why the proposed stockpile cannot be placed as indicated on the alternative site plan.



Sidney Miller

B.Sc. (Engineering) Civil, M. (Architecture) Conservation. Asapa no 087

Appendix 1: Declaration of Independence

I, Sidney Mears Miller (ID 5412135029082) declare that:
I act as an independent environmental practitioner in this application;
I will perform the work relating to the application in an objective manner, even if this result in views and findings that is not favourable to the applicant;
I declare that there are no circumstances that may compromise my objectivity in performing such work;
I have expertise in conducting environmental impact assessments, including knowledge of the National Heritage Resources Act (No 25 of 1999) and any guidelines that have relevance to the proposed activity;
I will comply with the Act, regulations and all other applicable legislation;
I will take into account, to the extent possible, the matters listed in regulation 8 of the regulations when preparing the application and any report relating to the application;
I have no, and will not engage in, conflicting interests in the undertaking of the activity;
I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing
- any decision to be taken with respect to the application by the competent authority; and
- the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
I 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;
I 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;
I will keep a register of all interested and affected parties that participated in a public participation process;
I 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;
all the particulars furnished by me in this form are true and correct;
will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations;
I realize that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest

I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity AND OR proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations.



SIDNEY MEARS MILLER

Appendix 2: Provisional indemnity

Declaration by author

I Sidney Miller hereby declare that all reasonable steps were taken to identify the heritage resources on the property under investigation. For obvious reasons heritage remains that occurred underground cannot be vouched for. In the event of such remains being uncovered during the mining operations work should be stopped and a heritage practitioner or the heritage authorities must be informed. The cost of such new investigation will be for the account of the client.



SIDNEY MEARS MILLER

Appendix 3: Shangani risk and impact table for alternatives

Aspect affected	Alternatives	Activity	Potential Impact	Reversibility	Irreplaceable loss	Phase	Size and scale of disturbance	Significance pre-mitigation			Mitigation Type	Significance post-mitigation		
								Probability	Magnitude	Significance		Probability	Magnitude	Significance
Sites of Archaeological and Cultural Importance	Waste rock dump and haul alternatives	SWEP Phase 2	For all project phases: No impact to sites of archaeological and cultural importance will occur as a result of the proposed SWEP Phase 2.											

Shangani mitigation table for alternatives

Aspect affected	Alternatives	Activity	Potential Impact	Phase	Mitigation type	Impact management actions / Mitigation measures	Impact management outcome/ Standard to be achieved	Time period for implementation	
Sites of Archaeological and Cultural Importance	Waste rock dump and haul alternatives	SWEP Phase 2	For all project phases: No impact to sites of archaeological and cultural importance will occur as a result of the proposed SWEP Phase 2.						