

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CLOSURE OF ERF XIV, LUDERITZ (//KHARAS) AS 'PUBLIC OPEN SPACE' AND REZONING OF ERF XIV, LÜDERITZ (CLOSED OPEN SPACE) TO 'GENERAL BUSINESS' WITH A BULK OF 2.0

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Project Name:	ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CLOSURE OF ERF XIV, LÜDERITZ (//KHARAS) AS 'PUBLIC OPEN SPACE' AND REZONING OF ERF XIV, LÜDERITZ (CLOSED OPEN SPACE) TO 'GENERAL BUSINESS' WITH A BULK OF 2.0
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EXECUTIVE SUMMARY

Green Earth Environmental Consultants were appointed by the Proponent, Safland International Property Services (Pty) Ltd, to conduct an Environmental Impact Assessment to obtain an Environmental Clearance for the closure of Erf XIV, Lüderitz as 'Public Open Space' and rezoning of Erf XIV, Lüderitz (Closed Open Space) to 'General Business' with a bulk of 2.0. The Proponent intends to use the site for the construction of a shopping mall which will house various retail outlets, restaurants/eateries, and services outlets. The land within the immediate vicinity of the project site is predominantly characterized by industrial, business, and residential uses. In terms of the Regulations of the Environmental Management Act (No 7 of 2007) an Environmental Impact Assessment must be done to address the following 'Listed Activities':

LAND USE AND DEVELOPMENT ACTIVITIES

- 5.1 The rezoning of land from -
- (d) use for nature conservation or zoned open space to any other land use.

The key characteristics/environmental impacts of the proposed project are as follows:

Impact on environment	Nature of impact
More efficient and intensive use of land.	Positive for Lüderitz and Namibia in
	general.
Creation of employment and transfer of	Positive as employment will be
skills.	created during operation.
Impact on utilization of municipal and other	Positive due to the better utilization of
infrastructure and facilities.	existing infrastructure.
There will be an impact on traffic.	Negative during operational as it will
	result in the increase in traffic and on
	the main roads in the area.
The creation of noise.	On par with the noise levels
	associated with the neighbouring
	uses.
Possible impact on cultural/heritage	No items of archeologic value or
aspects.	graves were observed during the site
	visit which means the impact will be
	low. If any items or graves are found,
	the impact will be high and
	irreversible.
Impact on fauna and flora.	Except for some reeds that are
	concentrated on a small area of the
71	site, the site has no vegetation.
There might be a possible visual impact.	New infrastructure will be constructed
	on the site.
Impact on groundwater, surface water and	The impact will be negative in case of
soil.	spilling of hazardous materials during
	construction and operation. The
	impact will be low as the site will not
	be used for noxious activities. The
	facility is linked with the town's sewer
	system.

The environmental impacts during the operational phase of the proposed project:

IMPACTS DURING OPERATIONAL PHASE			
Aspect	Impact Type	Significance of impacts Unmitigated	Significance of impacts Mitigated
Ecology Impacts	-	М	Г
Dust and Air Quality	-	M	L
Groundwater Contamination	-	М	Г
Waste Generation	-	M	L
Failure of Reticulation Pipeline	-	M	L
Fires and Explosions	-	M	L
Safety and Security	-	M	L

IMPACT EVALUATION CRITERION (DEAT 2006):			
Criteria	Rating (Severity)		
Impact Type	+	Positive	
	0	No Impact	
	- Negative		
Significance of	L	Low (Little or no impact)	
impacts	М	Medium (Manageable impacts)	
	Н	High (Adverse impact)	

Limited negative impacts on the vegetation and the natural drainage systems are expected. The noise and dust during construction and operation are in line with the activities from the neighbouring erven. However, mitigation measures will be provided that can control the extent, intensity, and frequency of these named impacts in order not to have substantial negative effects or results.

The type of activities that will be carried out on the site will not negatively affect the amenity of the locality and the activities do not adversely affect the environmental quality of the neighbouring erven or areas. None of the potential impacts identified are regarded as having a significant impact to the extent that the proposed project should not be allowed. However, the operational activities further on need to be controlled and monitored by the assigned subcontractors and the proponent.

The Environmental Impact Assessment which follows upon this paragraph was conducted in accordance with the guidelines and stipulations of the Environmental Management Act (No 7 of 2007) meaning that all possible impacts have been considered and the details are presented in the report. Based upon the conclusions and recommendations of the Environmental Impact Assessment Report and Environmental Management Plan following this paragraph, the Environmental Commissioner of the Ministry of Environment, Forestry and Tourism is herewith requested to:

- 1. Accept the Environmental Impact Assessment;
- 2. Approve the Environmental Management Plan;
- 3. Issue an Environmental Clearance for the closure of Erf XIV, Lüderitz as 'Public Open Space' and rezoning of Erf XIV, Lüderitz (Closed Open Space) to 'General Business' with a bulk of 2.0 and for the following "listed activities":

LAND USE AND DEVELOPMENT ACTIVITIES

- 5.1 The rezoning of land from -
- (d) use for nature conservation or zoned open space to any other land use.

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LIST OF ABBREVIATIONS

CAN Central Area of Namibia
EC Environmental Clearance

ECO Environment Control Officer

EIA Environmental Impact Assessment
EMP Environmental Management Plan
I&APs Interested and Affected Parties

MEFT Ministry of Environment, Forestry and Tourism

SQM Square Meters

1. INTRODUCTION

The Proponent, Safland International Property Services (Pty) Ltd, appointed Green Earth Environmental Consultants to conduct an Environmental Impact Assessment and develop an Environmental Management Plan to obtain an Environmental Clearance for the closure of Erf XIV, Lüderitz as 'Public Open Space' and rezoning of Erf XIV, Lüderitz (Closed Open Space) to 'General Business' with a bulk of 2.0. The Proponent intends to use the site for the construction and operation of a shopping mall.

The Environmental Management Act (No. 7 of 2007) and the Environmental Impact Assessment Regulations (GN 30 in GG 4878 of 6 February 2012) stipulates that an Environmental Impact Assessment (EIA) report and management plan is required as the following 'Listed Activities' are involved:

LAND USE AND DEVELOPMENT ACTIVITIES

- 5.1 The rezoning of land from -
- (d) use for nature conservation or zoned open space to any other land use.

The Environmental Impact Assessment below contains information on the proposed project and the surrounding areas, the proposed activities, the applicable legislation to the study conducted, the methodology that was followed, the public consultation that was conducted, and the receiving environment's sensitivity and any potential ecological, environmental, and social impacts.

2. TERMS OF REFERENCE

To be able to implement the proposed project, an Environmental Impact Assessment and Environmental Clearance is required. For this environmental impact exercise, Green Earth Environmental Consultants followed the terms of reference as stipulated under the Environmental Management Act.

The aim of the environmental impact assessment was:

- To ascertain existing environmental conditions on the site to determine its environmental sensitivity.
- To inform I&APs and relevant authorities of the details of the proposed development and to provide them with an opportunity to raise issues and concerns.
- To assess the significance of issues and concerns raised.
- To compile a report detailing all identified issues and possible impacts, stipulating the way forward and identify specialist investigations required.
- To outline management guidelines in an Environmental Management Plan (EMP) to minimize and/or mitigate potentially negative impacts.
- To comply with Namibia's Environmental Management Act (2007) and its regulations (2012).

The tasks that were undertaken for the Environmental Impact Assessment included the evaluation of the following: climate, water (hydrology), vegetation, geology, soils,

socio economic impact, cultural heritage, groundwater, sedimentation, erosion, biodiversity, sense of place, socio-economic environment, health, safety and traffic.

The EIA and EMP from the assessment will be submitted to the Environmental Commissioner for consideration. The Environmental Clearance will only be obtained (from the DEA) once the EIA and EMP has been examined and approved for the listed activity.

The public consultation process as per the guidelines of the Act has been followed. The methods that were used to assess the environmental issues and alternatives included the collection of data on the project site and surrounding area, info obtained from the proponent and the Ministry of Environment, Forestry and Tourism and identified and affected stakeholders. Consequences of impacts were determined in five categories: nature of impact, expected duration of impact, geographical extent of the event, probability of occurring and the expected intensity.

All other permits, licenses or certificates that are further on required for the operation of the proposed project still needs to be applied for by the proponent.

3. NEED, DESIRABILITY AND MOTIVATION

It is expected that the population of Lüderitz will increase significantly soon due to the finding of oil and gas along the Namibian Coastline, the expected establishment of the green hydrogen industry as well as the increased demand in using the Lüderitz Port as an important transit for goods imported and exported by the Namibian Industries and neighboring Southern African Countries. The town faces the challenge of accommodating an anticipated influx of about 12 000 temporary employees for the establishment of oil and gas industries, as well as about 3 000 permanent employees. Therefore, Lüderitz must prepare for a strong influx of industrial workers and employees in the service sector. This anticipated growth of the town confirms the need for additional modern retail facilities.

Safland identified Lüderitz for the construction and operation of a retail mall that will bring additional retailers and a range of goods and convenience to the inhabitants of the Town. They visited the town and consulted with Council to identify and obtain a site for the proposed mall. From these consultations, Erf XIV, Lüderitz was identified as of the ideal size, locality and with safe and good access for the construction and operation of the mall and its supporting infrastructure. It is believed that the proposed development will not have a negative impact on the receiving environment.

The site is desirable for the proposed development. It is large enough to accommodate a small suburban mall, has good access and is surrounded by other business and residential uses.

From the above it is clear that there is a need for the proposed development and that the erf is desirable to accommodate the proposed development. The flood risk can be mitigated as per the requirements of Council.

Determining what the impact of the operations would be are broken down into different categories and environmental aspects and dealt with in the Environmental Management Plan (EMP). As per the ISO 14001 definition: an environmental aspect is an element of an organization's activities, products and/or services that can

interact with the environment to cause an environmental impact e.g., land degradation or land deterioration among others, that will cause harm to the environment.

All concerns and potential impacts raised during the public participation process and consultative meetings were evaluated. Predictions were made with respect to their magnitude and an assessment of their significance was made according to the following criteria:

The Nature of the activity: The possible impacts that may occur are that water will be used in the operational phase, wastewater will be produced that will be handled either by the Town Council or by the proponent, land will be used for the proposed activities, a sewage system will be used, and general construction activities will take place, namely the building of infrastructure.

The Probability of the impacts to occur: The probability of the above-named impacts to occur and have a negative or harmful impact on the environment and the community is small since the Environmental Management Plan will also guide these activities. Water will still be used, and wastewater produced, however guidelines will be set that will ensure the impact is minimum.

The Extent of area that the project will affect: The specific project will most likely only have a small impact on the proposed project site itself and not on the surrounding or neighbouring land except for noise, traffic, roads, electricity and dust and there may be a visual impact because of the size of the proposed development. Therefore, the extent that the project will have a negative impact on is not extensive.

The Duration of the project: The duration of the project is uncertain. Water will still be used, and waste produced on a continuous basis and the structures that were constructed will remain and may be visually unpleasing to surroundings.

The Intensity of the project: The intensity of the project is mostly limited to the site however for the above-named items/processes where the intensity of the project will be felt outside the borders of the project site.

According to the information that was present while conducting the Environmental Impact Assessment for the construction and operation of the project, no high-risk impacts were identified and therefore it is believed that the operations will be feasible in the short and long run. Most of the impacts identified were characterized as being of a low impact on the receiving and surrounding environment and with mitigation measures followed, the impacts will be of minimum significance or avoided.

4. BACKGROUND INFORMATION ON PROJECT

4.1.PROPOSED PROJECT

Erf XIV, Lüderitz, located between Leutwein, Lüderitz and Buren Streets, is 2,3634 ha in extent and reserved for Public Open Space purposes. Lüderitz Town Council approved to sell Erf XIV to Safland International Property Services Namibia (Pty) Ltd for a retail development on the erf. For the sale and development to be completed, the statutory procedures of the closure and rezoning need to be completed. Upon

completion of the statutory procedures, the building plans can be submitted to the Town Council for approval. See below *Plans* showing the locality of Erf XIV:

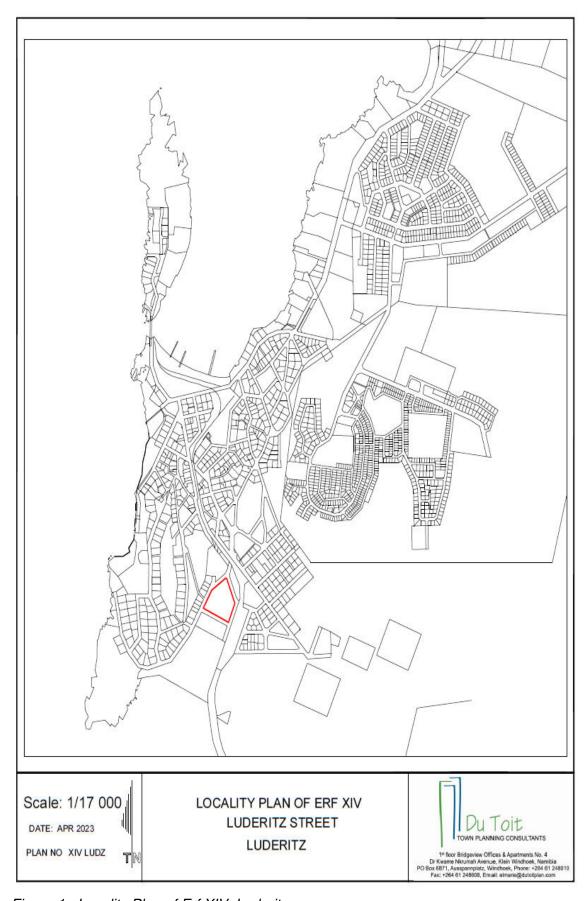


Figure 1: Locality Plan of Erf XIV, Luderitz

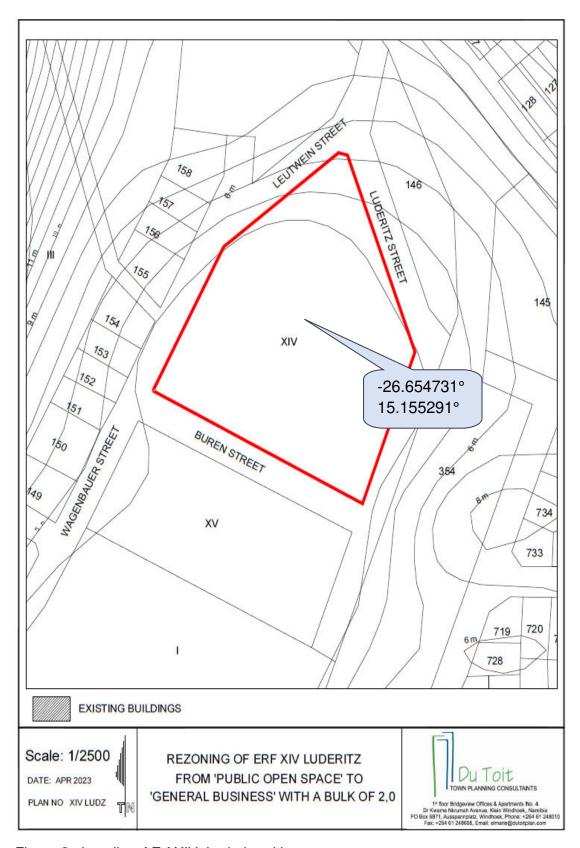


Figure 2: Locality of Erf XIV, Luderitz with contours



Figure 3: Plan with Photo of Erf XIV, Lüderitz

5. PROJECT PROPOSAL

It is the intension of Safland International Property Services (Pty) Ltd to develop a shopping mall on Erf XIV, Lüderitz. The proposed Mall will provide for an anker tenant (normally a large supermarket like Shoprite, Checkers, Pick and Pay, etc.) and

several smaller (line) shops including furniture and clothing stores as well as restaurants, service outlets like banks and other conveniences stores. The Mall complex will include parking areas and other supporting infrastructure normally required for a development of this nature. Erf XIV has been identified by Safland in consultation with Council to be large enough and suitable for the construction and operations of the proposed mall and its supporting infrastructure.

To be able to use Erf XIV for the construction and operations of the mall, the 'public open space' must be closed, and the site must be rezoned from 'public open space' to 'general business'.

6. SURROUNDING USES

To the west of the Erf, residential dwellings and a church are observed. The Helene van Rhyn School is located on Erf 789 located to the northwest of the Erf. Road D701 linking Lüderitz with Grosse Bucht and Diaz Point crosses the erf on the northeastern side. East of this road is the railway and Erf 354 which is zoned 'parastatal' upon which warehouses have been constructed. Erf 146, located to the northeast of Erf XIV, is zoned 'light industrial'. To the south of Erf XIV is Erf XV which is also reserved as a 'public open space'. Erf XIV is thus located in an area with a mix use character and rezoning it to 'general business' will not negatively impact on the surrounding erven as it would be in line with the current uses.



Figure 4: Image of the Project Site area (1)



Figure 5: Image of the Project Site area (2)

7. TOPOGRAPHY AND CURRENT USE

The erf is vacant and not developed as a formal public open space. The surface shows signs of seasonal flooding and there are informal tracks over it. The northern portion of the Erf is covered with building rubble that had been dumped on it. See *Image* below showing where rubble has been dumped:



Figure 6: Photo showing the area where building rubble has been dumped



Figure 7: Photo of building rubble dumped on the erf

The erf is flat as can be seen from the contours on the *Map* below:

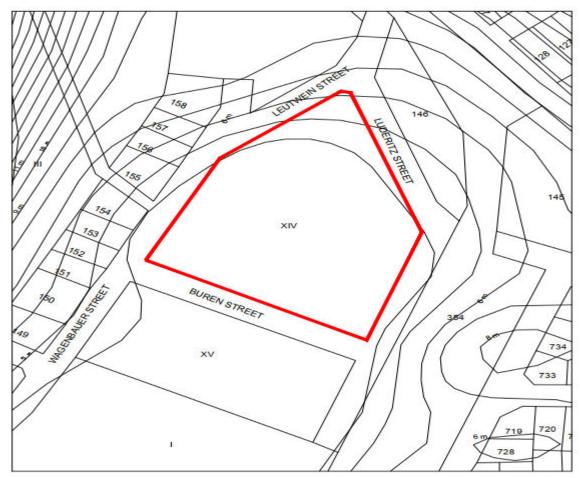


Figure 8: Map showing the contours of the site

8. FLOOD RISK CONCERNS

The site shows signs of seasonal flooding from rainwater flowing from higher lying areas located to the north, west and east of the site. See *Photos* below of reeds growing on site as well as the soil surface as proof of the flooding:



Figure 9: Photos showing signs of seasonal flooding

The flood is caused by rain and / or surface water spills which flow from the higher lying areas surrounding Erf XIV through the surface drainage systems. Several

culverts opening onto the site is confirmation of this. See *Photos* of some of the culverts below:





Figure 10: Culverts dumping surface water from surrounding areas onto the site

From observation it seems if flood risk from the ocean's side is sufficiently mitigated as can be seen from the *Photos* below. A gravel wall separates the sea from Erf XV which is located south of Erf XIV. This wall has a road on top of it and is well maintained.





Figure 11: Gravel wall which prevents the sea from flooding Erven VX and VIX

To address the flood risk observed during the site inspection, it is proposed that Safland appoints a registered professional engineer to determine the risk and make proposals on how it will be mitigated. The impact of the proposed action to mitigate the flood risk should also be considered on the surrounding areas as any mitigatory actions to protect the site might impact on these surrounding sites and structures negatively. To be able to use the erf as intended, proof must be submitted to the Urban and Regional Planning Board and the MEFT that measures will be undertaken to ensure that the 1:50 year flood occurrence is mitigated. It is also proposed that no building plans are approved by the Council without the flood risk report with engineering drawings and proposals on how it will be mitigated.

9. BULK SERVICES AND INFRASTRUCTURE

The following bulk services are already present on the site:

9.1.ACCESS REQUIREMENTS

Erf XIV, Lüderitz can obtain access from one of the following streets: Leutwein, Lüderitz and Buren Streets.



Figure 12: Image of road next to Project Site

9.1.1. ROAD ENCROACHMENT ON THE SITE

Road D701 to Grosse Bucht and Diaz Point encroaches onto the site and impacts negatively on the area available for development. It must be noted that no permanent structures will be allowed into the servitude area of this road. See *Photo* below showing the cadastral boundaries of Erf XIV and how the road is encroaching over the site:



Figure 13: Photo showing the locality of Road D701

The following options must be considered in addressing the encroachment:

- The Road can be realigned to follow the street portion (Lüderitz Street) located directly northeast of Erf XIV as is shown on the *Plan* above. Although rerouting Road D701 is probably the correct way of addressing the encroachment, it will be costly and probably unnecessary.
- Erf XIV can be subdivided to create a street portion to accommodate the current alignment of Road D701. This means that the area of Erf XIV will be reduced by the area required for the street portion.
- A now-building servitude/road servitude can be registered over Erf XIV to accommodate Road D701 at its current location. This is probably the best option from a cost and time perspective.

Safland, the purchaser of the erf, is aware of the encroachment of the Road and has indicated that the rest of the erf will still be large enough to accommodate the proposed mall. As the Erf's size will be reduced by the servitude area, Safland must be compensated.

9.1.2. ACCESS / PARKING

Erf XIV, Lüderitz is surrounded by three streets (Leutwein, Lüderitz and Buren Streets) to which safe and good access can be provided. Some of these streets will need to be upgraded to handle the additional traffic to be generated by the activities at the mall once in operation.

Parking will be provided in terms of the regulations of the Town Planning Scheme. A detailed parking layout will be submitted as part of the building plans for Council's approval.

9.2. WATER SUPPLY

Water to the Erf is obtained from the Lüderitz water reticulation network.

9.3. ELECTRICITY

Electricity is obtained from the Lüderitz electrical supply grid.

9.4. SEWAGE DISPOSAL

Only household sewer will be generated on site from toilet and kitchen facilities. This sewer is connected to the sewer system of Lüderitz.



Figure 14: Sewage connection on site

From observation on site, it seems as if a sewer line is crossing the site, basically through the middle of the site. See below *Photos* of manholes observed on the site:



Figure 15: Photo showing manholes of the sewer line

See *Photo* below showing the alignment of the sewer based on manholes (exact alignment to be confirmed) observed on site:



Figure 16: Estimated alignment of the sewer line

It could not be confirmed if this sewer line is still in use, but its locality will seriously impact the efficient placement of structures on the site. It is thus advised that the status of the sewer must be investigated by the applicant's engineer in consultation with Council's technical team.

9.5. SOLID WASTE

The solid waste generated on the site is collected by the Lüderitz Town Council through their weekly waste collection and management system and disposed of at their approved landfill site.

9.6. FIRE PROTECTION

The Proponent will install the necessary fire protection infrastructure / extinguishers as per the requirements of Lüderitz Town Council.

9.7.STORMWATER

The natural flow of storm water and drainage will be accommodated in the planning and construction of the buildings.

10. APPROACH TO THE STUDY

The assessment included the following activities:

a) Desktop sensitivity assessment

Literature, legislation and guidance documents related to the natural environment and land use activities available on the site and area in general were reviewed to determine potential environmental issues and concerns.

b) Site assessment (site visit)

The proposed project site and the immediate neighbourhood and surrounding area were assessed through several site visits to investigate the environmental parameters on site to enable further understanding of the potential impacts on site.

c) Public participation

The public was invited to give input, comments and opinions regarding the proposed project. Notices were placed in the Namibian and New Era (see Appendix) on two consecutive weeks (29 May and 5 June 2023) inviting public participation and comments on the proposed project. A notice was also placed on the site and on the Notice Board of the Town Council of Lüderitz. The closing date for any questions, comments, inputs or information was 19 June 2023.

d) Scoping

Based on the desk top study, site visit and public participation, the environmental impacts were determined in five categories: nature of project, expected duration of impact, geographical extent of the event, probability of occurring and the expected intensity. The findings of the scoping have been incorporated in the environmental impact assessment report below.

e) Environmental Management Plan (EMP)

To minimize the impact on the environment, mitigation measures have been identified to be implemented during planning, construction, and implementation. These measures have been included in the Environmental Management Plan to guide the planning, construction and operation of the development which can also be used by the relevant authorities to ensure that the project is planned, developed, and operated with the minimum impact on the environment.

11. ASSUMPTIONS AND LIMITATIONS

It is assumed that the information provided by the proponent (Safland International Property Services (Pty) Ltd) and Lüderitz Town Council is accurate. Safland together with officials of Lüderitz Town Council investigated various sites for the proposed project and concluded that Erf XIV, Lüderitz is the best site for the proposed project. Lüderitz Town Council approved the sale of this erf to Safland. Therefore, no alternative erven for the proposed project were examined. The site was visited several times and any happenings after this are not mentioned in this report. (The

assessment was based on the prevailing environmental conditions and not on future happenings on the site.) However, it is assumed that there will be no significant changes to the proposed project, and the environment will not adversely be affected between the compilation of the assessment and the implementation of the proposed activities.

12. ADMINISTRATIVE, LEGAL & POLICY REQUIREMENTS

To protect the environment and achieve sustainable development, all projects, plans, programs and policies deemed to have adverse impacts on the environment require an EIA according to Namibian legislation. The administrative, legal and policy requirements to be considered during the Environmental Assessment are the following:

- The Namibian Constitution
- The Environmental Management Act (No. 7 of 2007)
- The Lüderitz Town Planning Amendment Scheme No. 5 (May 2003)
- Other Laws, Acts, Regulations and Policies

THE NAMIBIAN CONSTITUTION

Article 95 of Namibia's constitution provides that:

"The State shall actively promote and maintain the welfare of the people by adopting, inter alia, policies aimed at the following:

Management of ecosystems, essential ecological processes and biological diversity of Namibia and utilization of living natural resources on a sustainable basis for the benefit of all Namibians, both present and future; in particular, the Government shall provide measures against the dumping or recycling of foreign nuclear and toxic waste on Namibian territory." This article recommends that a relatively high level of environmental protection is called for in respect of pollution control and waste management.

Article 144 of the Namibian Constitution deals with environmental law and it states:

"Unless otherwise provided by this Constitution or Act of Parliament, the general rules of public international agreements binding upon Namibia under this Constitution shall form part of the law of Namibia". This article incorporates international law, if it conforms to the Constitution, automatically as "law of the land". These include international agreements, conventions, protocols, covenants, charters, statutes, acts, declarations, concords, exchanges of notes, agreed minutes, memoranda of understanding, and agreements (Ruppel & Ruppel-Schlichting, 2013). It is therefore important that the international agreements and conventions are considered (see section 4.9).

In considering these environmental rights, Safland International Property Services (Pty) Ltd (the Proponent) should consider the following in devising an action plan in response to these articles:

- Implement a "zero-harm" policy at that would guide decisions.
- Ensure that no management practice or decision result in the degradation of future natural resources.
- Take a decision on how this part of the Constitution will be implemented as part of the Proponent's Environmental Control System (ECS).

ENVIRONMENTAL MANAGEMENT ACT (NO. 7 OF 2007)

The Environmental Impact Assessment Regulations (GN 30 in GG 4878 of 6 February 2012) of the Environmental Management Act (No. 7 of 2007) that came into effect in 2012 requires/recommends that an Environmental Impact Assessment and an Environmental Management Plan (EMP) be conducted for the following listed activities to obtain an Environmental Clearance Certificate:

LAND USE AND DEVELOPMENT ACTIVITIES

- 5.1 The rezoning of land from -
- (d) use for nature conservation or zoned open space to any other land use.

Cumulative impacts associated with the development must be included as well as public consultation. The Act further requires all major industries and mines to prepare waste management plans and present these to the local authorities for approval.

The Act, Regulations, Procedures and Guidelines have integrated the following sustainability principles. These need to be given due consideration, particularly to achieve proper waste management and pollution control:

Cradle to Grave Responsibility

This principle provides that those who handle or manufacture potentially harmful products must be liable for their safe production, use and disposal and that those who initiate potentially polluting activities must be liable for their commissioning, operation and decommissioning.

Precautionary Principle

It provides that if there is any doubt about the effects of a potentially polluting activity, a cautious approach must be adopted.

The Polluter Pays Principle

A person who generates waste or causes pollution must, in theory, pay the full costs of its treatment or of the harm, which it causes to the environment.

Public Participation and Access to Information

In the context of environmental management, citizens must have access to information and the right to participate in decisions making.

CONCLUSION AND IMPACT

Some of the surrounding erven have been cleared from vegetation and structures have been constructed on the sites or are in the process of being constructed. The proposed activity will thus fit in with the surrounding activities and not have a negative impact on the prevailing environment. It will be ensured that all protected trees and plant species will be retained where possible.

THE LÜDERITZ TOWN PLANNING AMENDMENT SCHEME NO. 5 (MAY 2003)

The area to which this Scheme applies is the area as indicated on the scheme maps. The general purpose of the Scheme is the co-ordinated and harmonious development of the area of Lüderitz including where necessary the redevelopment of any part thereof which has already been subdivided and build upon, in such a way as will most effectively tend to promote health, safety, order, amenity, convenience and general welfare as well as efficiency and economy and conservation of the existing character of the town, in the process of such development.

The Proponent appointed Du Toit Town Planning Consultants to attend to the town planning procedures to rezone Erf XIV. An application was submitted to Council for evaluation and approval. Once Council's approval is obtained, an application will be submitted to the Urban and Reginal Planning Board for the final approval of the rezoning. The final approval of the rezoning is subject to obtaining the environmental clearance.

Du Toit Town Planning Consultants, on behalf of the purchasers of Erf XIV, Lüderitz, Safland International Property Services Namibia (Pty) Ltd, will apply in terms of the stipulations of the Urban and Regional Planning Act, 2018 (Act No. 5 of 2018) and Section 50(3)(a)(ii) of the Local Authorities Act, 1992 (Act 23 of 1992), to the Lüderitz Town Council and the Urban and Regional Planning Board for:

- Permanent closure of Erf XIV, Lüderitz measuring 2,3 ha, as Public Open Space.
- Rezoning of Erf XIV, Lüderitz (Closed Open Space) to 'General Business' with a bulk of 2.0.

See below the current zoning map and the new zoning map:

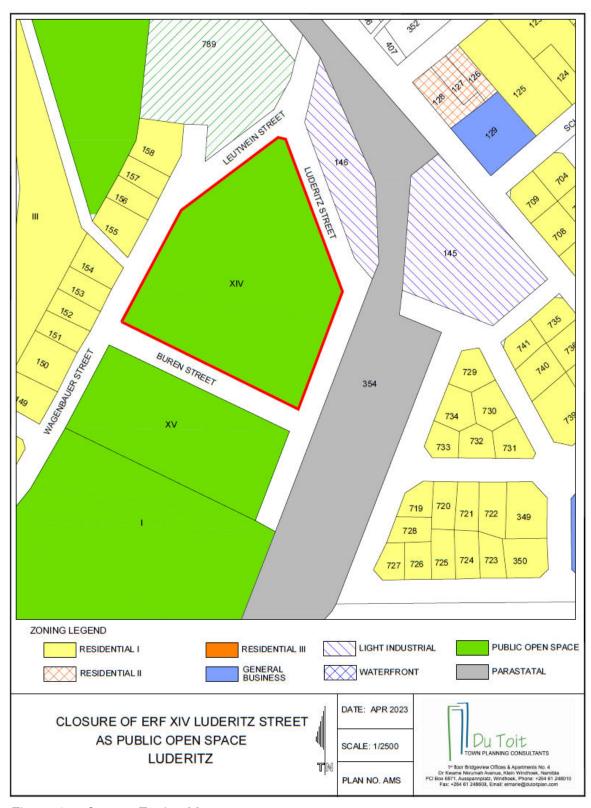


Figure 17: Current Zoning Map

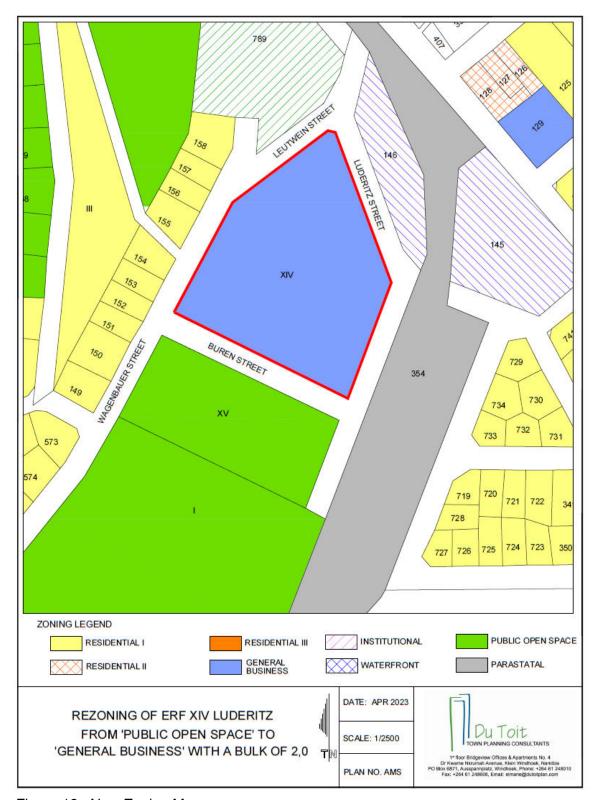


Figure 18: New Zoning Map

CONCLUSION AND IMPACT

The proposed project has been considered under the stipulations of the Lüderitz Town Planning Scheme and the Local Authorities Act. The project is in line with the Lüderitz Town Planning Scheme and will not have a negative impact on the surrounding environment. Finalising the rezoning of the erf is subject to obtaining an ECC.

OTHER LAWS, ACTS, REGULATIONS AND POLICIES

The laws, acts, regulations, and policies listed below have also been considered during the Environmental Assessment.

Table 1: Laws. Acts, Regulations and Policies Laws, Acts, Regulations & Policies consulted: **Electricity Act** In accordance with the Electricity The Proponent must abide to (No. 4 of 2007) Act (No. 4 of 2007) which provides the Electricity Act. for the establishment of the Electricity Control Board and provide for powers and its functions; to provide for the requirements and conditions for obtaining licenses for the provision of electricity; to provide for the and obligations powers of licenses; and to provide for incidental matters: the necessary permits and licenses will be obtained. **Pollution** The **Pollution Control and Waste** The Proponent must adhere **Control** and Management Bill is currently in to the Pollution Control and Waste preparation and is therefore Waste Management Bill. Management included as a guideline only. Of reference to the mining, Parts 2, 7 Bill (guideline only) and 8 apply. Part 2 provides that no person shall discharge or cause to be discharged, any pollutant to the air from a process except under and in accordance with the provisions of an air pollution license issued under section 23. Part 2 also further provides for procedures to be followed in license application, fees to be paid and required terms of conditions for air pollution licenses. Part 7 states that any who sells. person stores. transports or uses any hazardous substances or products containing hazardous substances shall notify competent authority, the accordance with sub-section (2). of the presence and quantity of those substances. The competent authority for the purposes of section 74 shall maintain a register

notified

of

substances

	accordance with that section and the register shall be maintained in accordance with the provisions. Part 8 provides for emergency preparedness by the person handling hazardous substances, through emergency response plans.	
Water Resources Management Act	The Water Resources Management Act (No. 11 of 2013) stipulates conditions that ensure effluent that is produced to be of a certain standard. There should also be controls on the disposal of sewage, the purification of effluent, measures should be taken to ensure the prevention of surface and groundwater pollution and water resources should be used in a sustainable manner.	The Act must be consulted. Fresh water abstraction and waste-water discharge permits should be obtained when required.
Solid and Hazardous Waste Management Regulations: Local Authorities 1992	Provides for management and handling of industrial, business and domestic waste.	The Proponent must abide to the solid waste management provisions.
Hazardous Substances Ordinance (No. 14 of 1974)	The Ordinance applies to the manufacture, sale, use, disposal and dumping of hazardous substances, as well as their import and export and is administered by the Minister of Health and Social Welfare. Its primary purpose is to prevent hazardous substances from causing injury, ill-health or the death of human beings.	The state of the s
Atmospheric Pollution Prevention Ordinance of Namibia (No. 11 of 1976)	Part 2 of the Ordinance governs the control of noxious or offensive gases. The Ordinance prohibits anyone from carrying on a scheduled process without a registration certificate in a controlled area. The registration certificate must be issued if it can be demonstrated that the best practical means are being adopted for preventing or reducing the escape into the atmosphere of noxious or offensive gases	The proponent should adhere to the stipulations of the Atmospheric Pollution Prevention Ordinance.

	produced by the scheduled process.	
Nature	The Nature Conservation	The proposed project
Conservation	Ordinance (No. 4 of 1975) covers	implementation is not located
Ordinance	game parks and nature reserves,	in a demarcated conservation
Oramanoc	the hunting and protection of wild	area, national park or unique
	animals, problem animals, fish and	environments.
	indigenous plant species. The	CHAIRCHINICHES.
	Ministry of Environment, Forestry	
	and Tourism (MEFT) administer it	
	and provides for the establishment	
	of the Nature Conservation Board.	
Forestry Act	The Forestry Act (No. 12 of	No removal of protected tree
7 010011,71101	2001) specifies that there be a	species or removal of mature
	general protection of the receiving	trees should happen. The
	and surrounding environment.	Ministry of Environment,
	The protection of natural	Forestry and Tourism should
	vegetation is of great importance,	be consulted when required.
	the Forestry Act especially	
	stipulates that no living tree, bush,	
	shrub or indigenous plants within	
	100m from any river, stream or	
	watercourse, may be removed	
	without the necessary license.	
Labour Act	The Labour Act (No. 11 of 2007)	The proponent and contractor
	contains regulations relating to the	should adhere to the Labour
	Health, Safety and Welfare of	Act.
	employees at work. These	
	regulations are prescribed for	
	among others safety relating to	
	hazardous substances, exposure	
	limits and physical hazards.	
	Regulations relating to the Health	
	and Safety of Employees at Work	
	are promulgated in terms of the	
	Labour Act 6 of 1992 (GN156,	
Traditional	GG1617 of 1 August 1997).	Traditional Authorities should
Authorities	The Traditional Authorities Act (No. 17 of 1995) provide for the	Traditional Authorities should
Act (No. 17 of	establishment of traditional	be consulted when required.
1995)	authorities, the designation and	
1333)	recognition of traditional leaders;	
	to define their functions, duties	
	and powers; and to provide for	
	matters incidental thereto.	
Public and	The Public and Environmental	The proponent and contractor
Environmental	Health Act (No. 1 of 2015)	should adhere to the Public
Health Act	provides with respect to matters of	and Environmental Health
	public health in Namibia. The	Act.
	objects of this Act are to: (a)	
	promote public health and	
	wellbeing; (b) prevent injuries,	
	GPEEN EAPTH Environmental Cons	ultants

National Heritage Act (No. 27 of 2004)	diseases and disabilities; (c) protect individuals and communities from public health risks; (d) encourage community participation in order to create a healthy environment; and (e) provide for early detection of diseases and public health risks. All protected heritage resources discovered need to be reported immediately to the National Heritage Council (NHC) and require a permit from the NHC before it may be relocated. This should be applied from the NHC.	The National Heritage Council should be consulted when required.
National Monuments Act of Namibia (No. 28 of 1969) as amended until 1979	No person shall destroy, damage, excavate, alter, remove from its original site or export from Namibia: (a) any meteorite or fossil; or (b) any drawing or painting on stone or a petroglyph known or commonly believed to have been executed by any people who inhabited or visited Namibia before the year 1900 AD; or (c) any implement, ornament or structure known or commonly believed to have been used as a mace, used or erected by people referred to in paragraph; or (d) the anthropological or archaeological contents of graves, caves, rock shelters, middens, shell mounds or other sites used by such people; or (e) any other archaeological or palaeontological finds, material or object; except under the authority of and in accordance with a permit issued under this section.	The proposed site for development is not within any known monument site both movable or immovable as specified in the Act, however in such an instance that any material or sites or archeologic importance are identified, it will be the responsibility of the developer to take the required route and notify the relevant commission.
Public Health Act (No. 36 of 1919)	Under this act, in section 119: "No person shall cause a nuisance or shall suffer to exist on any land or premises owned or occupied by him or of which he is in charge any nuisance or other condition liable to be injurious or dangerous to health."	The proponent will ensure that all legal requirements of the project in relation to protection of the health of their employees and surrounding residents is protected and will be included in the EMP. Relevant protective equipment shall be provided for employees in construction.

		The development shall fall and
		The development shall follow
		requirements and
		specifications in relation to
		water supply and sewerage
		handling and solid waste
		management so as not to
		threaten public health of
		future residents on this piece
0 "	T	of land.
Soil	The objectives of this Act are to:	Only the area required for the
Conservation	Make provisions for the combating	operations should be cleared
Act (No. 76 of	and prevention of soil erosion;	from vegetation to ensure the
1969)	Promote the conservation,	minimum impact on the soil
	protection and improvement of the	through clearance for
	soil, vegetation, sources and	construction.
	resources of the Republic;	
Air Quality Act	The Air Quality Act (No. 39 of	' '
(N0. 39 of	2004) intends to provide for	should adhere to the Air
2004)	national norms and standards	Quality Act.
	regulating air quality monitoring,	
	management and control by all	
	spheres of government; for	
	specific air quality measures; and	
	for matters incidental thereto.	
Vision 2030	Namibia's overall development	The proposed project is an
and National	ambitions are articulated in the	important element in
Development	Nation's Vision 2030. At the	employment creation.
Plans	operational level, five-yearly	
	national development plans	
	(NDP's) are prepared in extensive	
	consultations led by the National	
	Planning Commission in the Office	
	of the President. Currently the	
	Government has so far launched a	
	4th NDP which pursues three	
	overarching goals for the	
	Namibian nation: high and	
	sustained economic growth;	
	increased income equality; and	
	employment creation.	

CONCLUSION AND IMPACT

It is believed the above administrative, legal and policy requirements which specifically guide and governs development will be followed and complied with in the planning, implementation and operations of the activity.

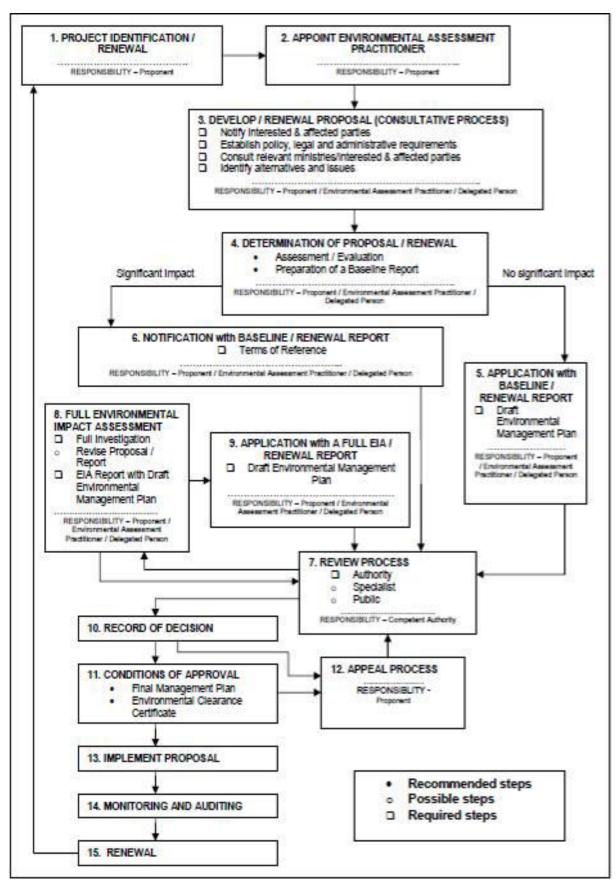


Figure 19: Flowchart of the Impact Process

13. AFFECTED RECEIVING ENVIRONMENT

13.1. BIODIVERSITY AND VEGETATION

Lüderitz is part of the Namib Desert and Succulent Karoo Biomes. The project site is showing evidence of some human interference namely informal tracks are present and a few gravel roads are present on the site. The erf has only a small area covered with reeds which survives on water which originates from a sewer leak.

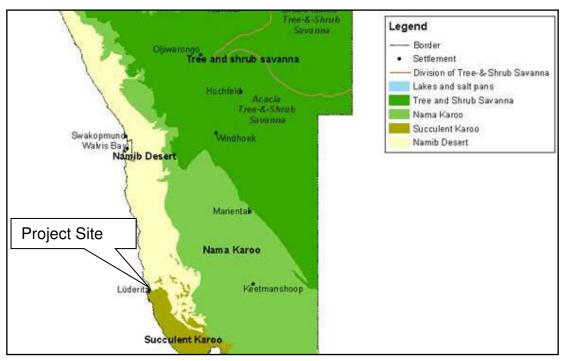


Figure 20: Biomes in Namibia (Atlas of Namibia Project, 2002)

The natural characteristics of the project site namely the vegetation clearance and the destruction of habitats is expected to further on have a low impact on the environment before the mitigation measures are taken and after the mitigation measures are taken, the impact will be very low. See below *Images* of the Project Site:



Figure 21: Limited vegetation present on site (1)

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Figure 22: Limited vegetation present on site (2)



Figure 23: Limited vegetation present on site (3)

13.2. GEOLOGY AND SOILS

Lüderitz is located in the Namaqua Metamorphic Complex Group. The rocky subsurface of Lüderitz consists of crystalline rocks of the Namaqua Metamorphic Complex. These ancient rocks belong to the oldest formations known in southern Namibia. These rock formations can be observed throughout the town and forms the foundations of many of the buildings to be observed in Lüderitz.

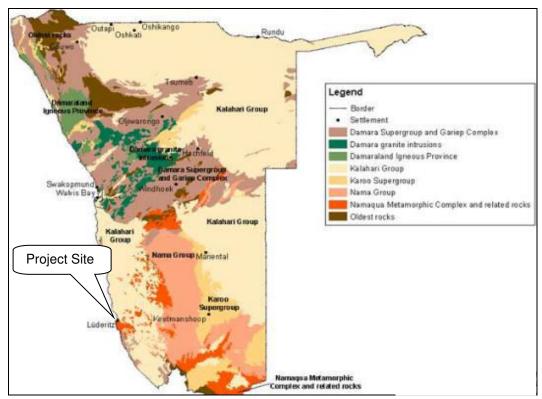


Figure 24: Geology of Namibia (Atlas of Namibia Project, 2002)

Erf XIV, Lüderitz has no rocky outcrops on it. The site is flat and suitable for the proposed development.



Figure 25: Sandy / salty parts on the site

13.3. SOCIO ECONOMIC ENVIRONMENT

This area of Lüderitz is mainly used for residential/business/institutional purposes. The operation and utilisation of the proposed facilities will have a positive impact on the socio-economic environment as a retail development is required for people

moving to Lüderitz to benefit from possible job opportunities derived from the finding of oil and gas as well as increase in export activities through the Lüderitz Harbour.



Figure 26: Surrounding environment (1)



Figure 27: Surrounding environment (2)



Figure 28: Surrounding environment (3)

13.4. CLIMATE

The climate in Lüderitz is called a desert climate. There is virtually no rainfall all year long in Lüderitz. The Köppen-Geiger climate classification is BWk. The average annual temperature is 15.8 °C in Lüderitz. Precipitation averages 17 mm.

The driest month is January. There is 0 mm of precipitation in January. The greatest amount of precipitation occurs in May, with an average of 3 mm. With an average of 17.9 °C, February is the warmest month. The lowest average temperatures in the year occur in August, when it is around 13.5 °C. The precipitation varies 3 mm between the driest month and the wettest month. The variation in temperatures throughout the year is 4.4 °C (*Climate-Data.org*, 2017).

			Clim	ate data fo	r Lüderitz								[hide]
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Record high °C (°F)	32.5 (90.5)	30.0 (86)	34.1 (93.4)	36.5 (97.7)	33.0 (91.4)	31.6 (88.9)	30.7 (87.3)	33.0 (91.4)	35.1 (95.2)	35.0 (95)	37.5 (99.5)	30.6 (87.1)	37.5 (99.5)
Average high °C (°F)	21.4 (70.5)	21.3 (70.3)	21.1 (70)	19.9 (67.8)	19.2 (66.6)	19.0 (66.2)	17.9 (64.2)	17.2 (63)	17.3 (63.1)	18.0 (64.4)	19.2 (66.6)	20.5 (68.9)	19.3 (66.7)
Daily mean °C (°F)	17.7 (63.9)	17.8 (64)	17.4 (63.3)	16.3 (61.3)	15.5 (59.9)	15.1 (59.2)	14.1 (57.4)	13.7 (56.7)	13.9 (57)	14.7 (58.5)	15.8 (60.4)	17.0 (62.6)	15.7 (60.3)
Average low °C (°F)	14.0 (57.2)	14.3 (57.7)	13.8 (56.8)	12.6 (54.7)	11.7 (53.1)	11.2 (52.2)	10.4 (50.7)	10.2 (50.4)	10.5 (50.9)	11.4 (52.5)	12.3 (54.1)	13.5 (56.3)	12.1 (53.8)
Record low °C (°F)	5.5 (41.9)	5.0 (41)	6.0 (42.8)	5.5 (41.9)	3.3 (37.9)	0.2 (32.4)	3.0 (37.4)	4.8 (40.6)	3.4 (38.1)	3.4 (38.1)	4.9 (40.8)	3.9 (39)	0.2 (32.4)
Average precipitation mm (inches)	0 (0)	1 (0.04)	(0.08)	2 (0.08)	3 (0.12)	3 (0.12)	1 (0.04)	(0.08)	1 (0.04)	0 (0)	0 (0)	0 (0)	17 (0.67)
Average precipitation days (≥ 0.1 mm)	1.0	1.0	1.0	0.9	1.4	1.4	1.0	0.7	0.5	0.5	0.5	0.7	10.6
Average relative humidity (%)	82	81	82	80	79	72	74	78	80	80	80	80	79
Mean monthly sunshine hours	198.4	203.4	257.3	216.0	213.9	144.0	170.5	201.5	216.0	201.5	189.0	176.7	2,388.2
Mean daily sunshine hours	6.4	7.2	8.3	7.2	6.9	4.8	5.5	6.5	7.2	6.5	6.3	5.7	6.5
			Source	e: Deutsche	er Wetterdie	nst ^[16]					·		

Figure 29: Climate in Lüderitz (Deutscher Wetterdienst)

13.5. HYDROLOGICAL COMPONENT

Considering the solid metamorphic rock basements, lack of both porous sand stones and gravel beds and the prevailing dryness of the area, potable water is lacking in this area of Lüderitz. The danger of polluting underground water is therefore zero. Therefore, the area where the project site is located has a very low groundwater potential from a permeability and yield perspective (*Grunert*, 2003).

Although the rainfall in this area is very low and most of the surface water evaporates, runoff can be expected due to the impermeability of soils (*Grunert, 2003*). The storage and accumulation of substances, which might pollute lower lying surface drainage systems or basins because of surface water drainage, should be prevented. No potential pollutants should be channelled or directed towards any drainage areas or the sea.

From the hydrological assessment perspective, no major geological structures that will enhance groundwater recharge or flow are evident on the proposed project site (*Grunert, 2003*).

13.6. CULTURAL HERITAGE

The proposed project site is not known to have any historical significance prior to or after Independence in 1990. The specific area does not have any National Monuments and the specific site has no record of any cultural or historical importance or on-site resemblance of any nature. No graveyard or related article was found on the site.

14. IMPACT ASSESSMENT AND EVALUATION

The Environmental Impact Assessment sets out potential positive and negative environmental impacts associated with the proposed project, which is located on Erf XIV, Lüderitz. The following assessment methodology will be used to examine each impact identified, see *Table* below:

Table 1: Impact Evaluation Criterion (DEAT 2006)

Criteria	Rating (Severity)				
Impact Type	+	Positive			
	0	No Impact			
		Negative			
Significance of impact being either	L	Low (Little or no impact)			
3	М	Medium (Manageable impacts)			
	н	High (Adverse impact)			

Probability:	Duration:
5 – Definite/don't know	5 - Permanent
4 – Highly probable	4 – Long-term (impact ceases)
3 – Medium probability	3 – Medium term (5 – 15 years)
2 – Low probability	2 – Short-term (0 – 5 years)
1 – Improbable	1 - Immediate
0 - None	
Scale:	Magnitude:
5 – International	10 – Very high/don't know
4 – National	8 - High
3 – Regional	6 - Moderate

2 – Local	4 - Low
1 – Site only	2 - Minor
	0 - None

The impacts on the receiving environment are discussed in the paragraphs below:

14.1. IMPACTS DURING THE CONSTRUCTION ACTIVITY

Some of the impacts that the project will have on the environment includes water will be used for the construction and operation activities, electricity will be used, a sewer system will be constructed and wastewater will be produced on the site that will have to be handled.

14.1.1. WATER USAGE

Water is a scarce resource in Namibia and therefore water usage should be monitored and limited in order to prevent unnecessary wastage. The proposed project might make use of water in its construction phase and operations.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	,					Unmitigated	Mitigated
Water	-	2	2	4	2	М	L

14.1.2. ECOLOGICAL IMPACTS

The proposed infrastructure will be constructed in a semi disturbed natural area which is partly covered with vegetation. Special care should be taken to limit the destruction or damage of the vegetation. However, impacts on fauna and flora are expected to be minimal. Disturbance of areas outside the designated working zone is not allowed.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	ance
						Unmitigated	Mitigated
Ecology	-	1	2	4	2	М	L

14.1.3. DUST POLLUTION AND AIR QUALITY

Dust generated during the transportation of building materials; construction and installation of bulk services, and problems thereof are expected to be low and site

specific. Dust is expected to be worse during the winter months when strong winds occur. Release of various particulates from the site during the construction phase and exhaust fumes from vehicles and machinery related to the construction of bulk services are also expected to take place. Dust is regarded as a nuisance as it reduces visibility, affects the human health and retards plant growth. It is recommended that regular dust suppression be included in the construction activities, when dust becomes an issue.

Impact evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	,,,,					Unmitigated	Mitigated
Dust & Air Quality	-	2	2	2	2	М	L

14.1.4. NOISE IMPACT

An increase of ambient noise levels at the proposed site is expected due to the construction activities. Noise pollution due to heavy-duty equipment and machinery might be generated. It is not expected that the noise generated during construction will impact any third parties due to the distance of the neighbouring activities. Ensure all mufflers on vehicles are in full operational order; and any audio equipment should not be played at levels considered intrusive by others. The construction staff should be equipped with ear protection equipment.

Impact evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	,,,					Unmitigated	Mitigated
Noise	-	2	1	4	2	M	L

14.1.5. HEALTH, SAFETY AND SECURITY

The safety, security and health of the labour force, employees and general public are of great importance. Workers should be orientated with the maintenance of safety and health procedures and they should be provided with PPE (Personal Protective Equipment). A health and safety officer should be employed to manage, coordinate and monitor risk and hazard and report all health and safety related issues in the workplace.

Safety issues could arise from the earthmoving equipment and tools that will be used on site during the construction phase. This increases the possibility of injuries and the contractor must ensure that all staff members are made aware of the potential risks of injuries on site. The presence of equipment lying around on site may also encourage criminal activities (theft).

Sensitize operators of earthmoving equipment and tools to switch off engines of vehicles or machinery not being used. The contractor is advised to ensure that the

team is equipped with first aid kits and that these are available on site, at all times. Workers should be equipped with adequate personal protective gear and properly trained in first aid and safety awareness.

No open flames, smoking or any potential sources of ignition should be allowed at the project location. Signs such as 'NO SMOKING' must be prominently displayed in parts where inflammable materials are stored on the premises. Proper barricading and/or fencing around the site especially trenches for pipes and drains should be erected to avoid entrance of animals and/or unauthorized persons. Safety regulatory signs should be placed at strategic locations to ensure awareness. Adequate lighting within and around the construction locations should be erected, when visibility becomes an issue.

Impact evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
						Unmitigated	Mitigated
Safety & Security	-	1	2	4	2	М	L

14.1.6. CONTAMINATION OF GROUNDWATER

Care must be taken to avoid contamination of soil and groundwater. Use drip trays when doing maintenance on machinery. Maintenance should be done on dedicated areas with linings or concrete flooring. The risk can be lowered further through proper training of staff. All spills must be cleaned up immediately. Excavations should be backfilled and sealed with appropriate material, if it is not to be used further.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	7,1					Unmitigated	Mitigated
Groundwater	-	2	2	2	2	М	L

14.1.7. SEDIMENTATION AND EROSION

Vegetation clearance and creation of impermeable surfaces could result in erosion in areas across the proposed area. The clearance of vegetation will further reduce the capacity of the land surface to slow down the flow of surface water, thus decreasing infiltration, and increasing both the quantity and velocity of surface water runoff. The proposed construction activities will increase the number of impermeable surfaces and therefore decrease the amount of groundwater infiltration. As a result, the amount of storm water during rainfall events could increase. If proper storm water management measures are not implemented this will impact negatively on the water courses close to the site.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	cance
	71-					Unmitigated	Mitigated
Erosion and Sedimentation	-	1	2	4	2	М	L

14.1.8. GENERATION OF WASTE

This can be in a form of rubble, cement bags, pipe and electrical wire cuttings. The waste should be gathered and stored in enclosed containers to prevent it from being blown away by the wind. Contaminated soil due to oil leakages, lubricants and grease from the construction equipment and machinery may also be generated during the construction phase.

The oil leakages, lubricants and grease must be addressed. Contaminated soil must be removed and disposed of at a hazardous waste landfill. The contractor must provide containers on-site, to store any hazardous waste produced. Regular inspection and housekeeping procedure monitoring should be maintained by the contractor.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	7.					Unmitigated	Mitigated
Waste	-	1	2	4	2	M	L

14.1.9. CONTAMINATION OF SURFACE WATER

Contamination of surface water might occur through oil leakages, lubricants and grease from the equipment and machinery during the installation, construction and maintenance of bulk services at the site. Oil spills may form a film on water surfaces in the nearby streams causing physical damage to water-borne organisms.

Machinery should not be serviced at the construction site to avoid spills. All spills should be cleaned up as soon as possible. Hydrocarbon contaminated clothing or equipment should not be washed within 25m of any surface water body.

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	ance
	,,					Unmitigated	Mitigated
Surface water	-	2	2	4	3	М	L

14.1.10. TRAFFIC AND ROAD SAFETY

All drivers of delivery vehicles and construction machinery should have the necessary driver's licenses and documents to operate these machines. Speed limit warning signs must be erected to minimise accidents. Heavy-duty vehicles and machinery must be tagged with reflective signs or tapes to maximize visibility and avoid accidents.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	ance
						Unmitigated	Mitigated
Traffic	-	2	2	4	3	M	L

14.1.11. FIRES AND EXPLOSIONS

There should be sufficient water available for firefighting purposes. Ensure that all fire-fighting devices are in good working order and they are serviced. All personnel have to be trained about responsible fire protection measures and good housekeeping such as the removal of flammable materials on site. Regular inspections should be carried out to inspect and test firefighting equipment by the contractor.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	,,,,					Unmitigated	Mitigated
Fires and Explosions	-	2	2	4	2	L	L

14.1.12. SENSE OF PLACE

The placement, design and construction of the proposed infrastructure should be as such as to have the least possible impact on the natural environment. The proposed activities will not have a large/negative impact on the sense of place in the area since it will be constructed in a manner that will not affect the neighbouring erven / portions and it will not be visually unpleasing.

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	ance
						Unmitigated	Mitigated
Nuisance Pollution	-	1	1	2	2	L	L

14.2. IMPACTS DURING THE OPERATIONAL PHASE

14.2.1. ECOLOGICAL IMPACTS

Staff and visitors should only make use of walkways and existing roads to minimise the impact on vegetation. Minimise the area of disturbance by restricting movement to the designated working areas during maintenance and drives.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significa	ance
	,,					Unmitigated	Mitigated
Ecology Impacts	-	1	2	4	2	L	L

14.2.2. DUST POLLUTION AND AIR QUALITY

Vehicles transporting goods and staff will contribute to the release of hydrocarbon vapours, carbon monoxide and sulphur oxides into the air. Possible release of sewer odour, due to sewer system failure of maintenance might also occur. All maintenance of bulk services and infrastructure at the project site has to be designed to enable environmental protection.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	,,					Unmitigated	Mitigated
Dust & Air Quality	-	2	2	4	4	М	L

14.2.3. CONTAMINATION OF GROUNDWATER

Spillages might also occur during maintenance of the sewer system. This could have impacts on groundwater especially in cases of large sewer spills. Proper containment should be used in cases of sewerage system maintenance to avoid any possible leakages. Oil and chemical spillages may have a heath impact on groundwater users. Potential impact on the natural environment from possible polluted groundwater also exists.

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
						Unmitigated	Mitigated
Groundwater contamination	-	2	2	4	2	L	L

14.2.4. GENERATION OF WASTE

Household waste from the activities at the site and from the staff working at the site will be generated. This waste will be collected, sorted to be recycled and stored in on site for transportation and disposal at an approved landfill site.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	ance
						Unmitigated	Mitigated
Waste Generation	-	1	2	2	2	М	L

14.2.5. FAILURE IN RETICULATION PIPELINES

There may be a potential release of sewage, stormwater or water into the environment due to pipeline/system failure. As a result, the spillage could be released into the environment and could potentially be health hazard to surface and groundwater. Proper reticulation pipelines and drainage systems should be installed. Regular bulk services infrastructure and system inspection should be conducted.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significa	ance
	,,					Unmitigated	Mitigated
Failure of Reticulation Pipeline	-	1	1	4	2	М	L

14.2.6. FIRES AND EXPLOSIONS

Food will be prepared on stoves. There should be sufficient water available for firefighting purposes. Ensure that all fire-fighting devices are in good working order and are serviced. All personnel have to be trained about responsible fire protection measures and good housekeeping such as the removal of flammable materials on site. Regular inspections should be carried out to inspect and test firefighting equipment by the contractor.

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	ance
	,,,,					Unmitigated	Mitigated
Fires and Explosions	-	2	1	4	2	М	L

14.2.7. HEALTH, SAFETY AND SECURITY

The safety, security and health of the labour force, employees and neighbours are of great importance, workers should be orientated with the maintenance of safety and health procedures and they should be provided with PPE (Personal Protective Equipment). Workers should be warned not to approach or chase any wild animals occurring on the site. No open flames, smoking or any potential sources of ignition should be allowed at the project location. Signs such as 'NO SMOKING' must be prominently displayed in parts where inflammable materials are stored on the premises.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	ance
						Unmitigated	Mitigated
Safety & Security	-	1	2	4	2	М	L

14.3. CUMULATIVE IMPACTS

These are impacts on the environment, which results from the incremental impacts of the construction and operation of the proposed project when added to other past, present, and reasonably foreseeable future actions regardless of what person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time. In relation to an activity, it means the impact of an activity that in it may not become significant when added to the existing and potential impacts resulting from similar of diverse activities or undertakings in the area.

Possible cumulative impacts associated with the proposed project include sewer damages/maintenance, vegetation and animal disturbance, uncontrolled traffic and destruction of the natural environment. These impacts could become significant especially if it is not properly supervised and controlled. This could collectively impact on the environmental conditions in the area. Cumulative impacts could occur in both the operational and the construction phase.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	"					Unmitigated	Mitigated
Cumulative Impacts	-	1	3	4	3	L	L

15. ENVIRONMENTAL MANAGEMENT PLAN

The Environmental Management Plan (EMP) provides management options to ensure impacts of the proposed construction are minimised. An EMP is an

environmental management tool used to ensure that undue or reasonably avoidable adverse impacts of the operations are prevented, and the positive benefits of the projects are enhanced.

The objectives of the EMP are:

- ✓ to include all components of the proposed project.
- ✓ to prescribe the best practicable control methods to lessen the environmental impacts associated with the project.
- ✓ to monitor and audit the performance of the project personnel in applying such controls.
- ✓ To ensure that appropriate environmental training is provided to responsible project personnel.

The EMP acts as a document that can be used during the various phases of the proposed project. The contractor as well as the management and staff should be made aware of the contents of the EMP. See Appendix for EMP.

16. CONCLUSION

The EIA has been completed in line with the requirements of the Environmental Management Act, 2007 and Regulations and it is concluded and recommended that the specific site identified namely Erf XIV, Lüderitz, has the full potential to be used for the proposed activities. The identified environmental and social impacts can be minimized and managed through implementing preventative measures and sound management systems. It is recommended that the environmental performance be monitored regularly to ensure compliance and that corrective measures be taken if necessary.

In general, the operation of the proposed project would pose limited environmental risks, provided that the EMP for the activity is used properly. The EMP should be used as an onsite tool during the operation of the project. Parties responsible for non-conformances of the EMP should be held responsible for any rehabilitation that has to be undertaken. After assessing all information available on this project, Green Earth Environmental Consultants are of the opinion that the proposed project site is suitable for the proposed activities. The accompanying EMP will focus on mitigation measures that will remediate or eradicate the negative or adverse impacts.

It is concluded that, due to the anticipated influx of people to Lüderitz, that there is a need for additional shopping facilities which Safland intends to provide through the development of a retail mall. The proposed mall will bring additional/new retail and convenience stores to the Town and also create additional employment opportunities especially for women. Erf XIV is large enough, ideally located with good access and thus desirable for the construction and operation of the mall. As the neighbouring area already has a mixed used character, the proposed rezoning and use will not impact negatively on the rest of the neighborhood.

17. RECOMMENDATION

It is therefore recommended that the Ministry of Environment, Forestry and Tourism through the Environmental Commissioner support and approve the Environmental Clearance for the closure of Erf XIV, Lüderitz as 'Public Open Space' and rezoning of

Erf XIV, Lüderitz (Closed Open Space) to 'General Business' with a bulk of 2.0 and to issue an Environmental Clearance for the following 'Listed Activities':

LAND USE AND DEVELOPMENT ACTIVITIES

- 5.1 The rezoning of land from -
- (d) use for nature conservation or zoned open space to any other land use.

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APPENDIX A: NEWSPAPER NOTICES





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GREEN EARTH Environmental Consultants

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Email: classifieds@nepc.com.na

Services

Notice

MUNICIPALITY OF WALVIS BAY Notice is hereby given in terms of section 63(2)(b) of the Local Authorities Act. 1992 (Act 23/1992); that the Manicipality of Walvis Bay intends to leases, by private transaction, a Portion of Farm 38 to Sugar Room Namibis Trading CC. DESCRIPTION: a Portion of Farm38 AREA: 20000 (m* LEASE AMOUNT EXCLUDING 15% VAT): 17 800.00

Full particulars pertaining to the lease will be for inspection by interested persons until Tuesday 13 June 2023 at room 45, Municipal Offices, Krusebmond, For more information Mas Merindia Reis be contacted at telephone (054) 2013/235 during office hours. Any person objecting to the proposed lease, may in writing lodge an objection together with the groundsmolvation thereof, to the Manager Houseig and Properties at the above address or to Privinte Bag 5017, Walvis Bay, before or on Finday, 16 June 2023 at 12 B0.

Offered Legal Notice Legal Notice

Legal Notice

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CLASSIFIEDS

Terms and Conditions Apply.



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Jack Manale Manager: Housing and Properties Tel: (044) 201 3338 Emall: jmanale@walvisbaycc.org.na a Portion of Farm38

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2710 Wanted 2720 Offered

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3210 Food & Beverages Goods

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The Successful Condidate must Manage, direct and coordinate the Human Resources Department of the Keelmanshoop Municipality

Be responsible for facilitating and recommending procedures and techniques to advise the Council through the Chief Esecutive Officer.

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NB: INTERESTED CANDIDATES MUST SUBMIT/HAND DELIVER THEIR CURRICULUM VITAE (CV) STATING

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June 2023.

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Kudus close in on United

KUDUS Rugby Club moved to within a point of log leaders Trustco United with a commanding 48 31 win away to Grootfon tein on Saturday.

Grootfontein provided strong opposi-tion on their home turf, scoring five tries to Kudus' six, but Kudus flyhalf Geraldo Beukes was the difference as he contributed 23 points through a try, six conversions and

two penalties.
Kudus' other try scorers were rightwing
Paulo Andrews, flyhalf Chad Plato, lock Enzio Kotzee, and substitute back Ronaldo

Enzio Kotzee, and substitute back Konando Diergaardt, who scored a brace. For Grootfontein, prop Callie Swanepoel scored two tries, centre Jurgens Liebenberg and substitute forward Amutenya Amutenya one each, while fullback Ronald Deck added 11 points through a try and three

The victory puts Kudus second on the log on 19 points from five matches, one point behind Trustco United who have a match in hand

Western Suburbs, meanwhile, were pushed all the way by a determined Reho Falcon before winning their encounter 44-26 at the Hage Geingob Stadium on

44-20 at the Hage Geingob Stadium on Saturday. Suburbs took an early 7-0 lead through a try by flanker Dhale Cloete, but Falcons arrowed the gap to 7-5 when lock Lwando Nata crashed over for an unconverted try. Falcons continued to attack, but Suburbs

caught them on the counter when wing Demarcho Hartung intercepted a backline pass to run 70m to score.



FORWARD ASSAULT ... Western Suburbs eighthman Richard Mapewa on the attack during their 44-26 victory against Reho Falcon.

The pacy Hartung soon added his second try, outstripping the defence as Suburbs went 21-8 ahead after half an hour.

Falcons came storming back after the break and two great tries by centre Liam Parker narrowed the deficit to 24-20.

Falcons, however, conceded several penalties which Falcons, however, conceded several penalties which on six noints.

EXPRESSION OF INTEREST



NAMIBIA DIAMOND TRADING COMPANY SEEKS THE RESEARCH SERVICES FOR THE DELIVERY OF A COMPREHENSIVE DIAMOND DOWNSTREAM BENEFICIATION IMPACT ASSESSMENT REPORT.

Numbba Diamond Trading Company is seeking an experienced company/consultant to conduct a comperbensive Beneficiation Impact Assessment Report. The assessment will cover the Namibian Diamond industry Down Stream Beneficiation for the period 2007 – 2022.

- SCOPE OF WORK
 The final report should be evalable on 10th September 2023
 Cerry our comprehensive economic research that asses the effectiveness of the strategic framework to promise and enhance busineeric-state or id ammonds mined in Namitsu.
 Assessment of the utilization of diamonds downstream for the benefit of the country within the three spheres of sustainable development, namine enhancements. As execution of constraints from policy frameworks that enable competitive edvientage, or disable instained to the downstream because or policy, regulations, and or downstream beneficial tool strategies for first promote downstream beneficial tool strategies for their promote downstream beneficial tool beneficial tool strategies for their promote downstream beneficial tool beneficial tool strategies for their promote downstream beneficial tool beyond manifecturing that includes trouble Namibian participation in the value chain.

DOCUMENTS TO BE SUBMITTED

CLOSING DATE: 31 May 2023 24H00

Registered businesses who are interested in providing such services are requested to subniprofiles and air relevant documents with the retorance number:

NOTE 1001: PROVISION OF SERVICE FOR AN IMPACT ASSESSMENT REPORT SUBMISSION OF ELECTRONIC COMPANY PROFILES

Email Address: Tenders@ndtc.com.na Subject Une: NDTC 1001: PROVISION OF SERVICE FOR AN IMPACT ASSESSMENT REPORT.

DISCUAMER

NDIC shall not be responsible for any cost incurred in the preparation and submission of a response to this expression of interest and further reserves the right to adorat this outpression of interest into any future benders, negligibles, and properties.



Walvis triumphs in Nalasra Games

· ADAM HARTMAN

THE Municipality of Walvis Bay emerged as the overall champion of the 12th edition of the Namibia Local Authorities Sports and Recreation Association (Nalasra)

Games,
The sporting event drew to a close on Friday after five days of competitive sportsmanship and cama-raderie where participants signified athletic prowess and commitment to men-tal health advocacy, in line with the theme of the and commitment to mental health advocacy, in
line with the theme of the
event: 'Local Authorities
Employees Mental Health
Matters'.

Swakopmund mayor

Disp. Narupher in her
either's lead outhorities exhibited authorities.

Dina Namubes, in her closing remarks, high-lighted the success of the 2023 edition and praised the participants for their

Erongo governor Nev-ille Andre praised the success of this year's games and underscored the importance of sports in community building. "What is also impor-

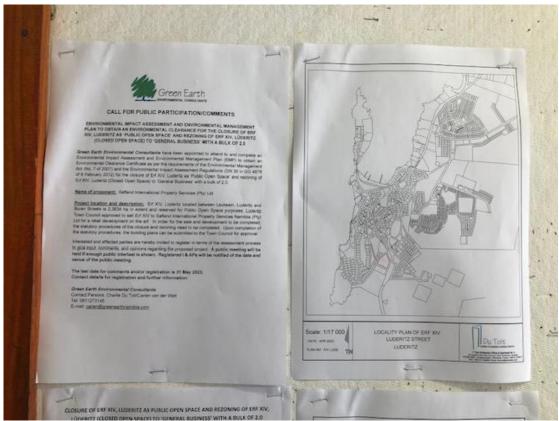
petition, with triumphs in various categories such as owela singles and doubles, fishing, and the 10km marathon for men and women over 40. Other notable achievements came from the Swakop-mund municipality and the City of Windhoek, which secured second and third place, respectively.

mibia's local authorities. The City of Windhoek dominated in pool singles, darts, volleyball men, the participants for their sportsmanship.

"Sport and games bring people together and foster strong relationships, Rehoboth clinched victidentifying it as one of the crucial elements that aid the mental well-being of men over-40, and 200m, the mental well-being of men over-40 events. Nalara president Daniel A Mouton said, despite the intense comercition, the intense comercition. netball, and the 21km intense competition, the event served as a crucial platform for highlight-ing the importance of mental health, with the local authorities maktant is to say that now that you have seen the importance of sport, we ing substantial efforts to implement mental health programmes.

APPENDIX B: NOTICE AT MUNICIPALITY





APPENDIX C: NOTICE ON SITE





APPENDIX D: CURRICULUM VITAE OF CHARLIE DU TOIT

1. Position: Environmental Practitioner

Name/Surname: Charl du Toit
 Date of Birth: 29 October 1960

4. Nationality: Namibian

5. Education: Name of Institution University of Stellenbosch, South Africa

Degree/Qualification Hons B (B + A) in Business

Administration and Management

Date Obtained 1985-1987

Name of Institution University of Stellenbosch, South Africa

Degree/Qualification BSc Agric Hons (Chemistry, Agronomy

and Soil Science)

Date Obtained 1979-1982

Name of Institution Boland Agricultural High School, Paarl,

South Africa

Degree/Qualification Grade 12
Date Obtained 1974-1978

EAPAN Member (Membership Number: 112)

6. Membership of

wembersinp or

Professional

Association:

7.	Languages:			<u>Speaking</u>	Reading	Writing
		English		Good	Good	Good
		Afrikaans		Good	Good	Good
8	Employment	From	To	Employe	ır	Position(s) hel

8.	Employment	<u>From</u>	<u>To</u>	<u>Employer</u>	Position(s) held
	Record:	2009	Present	Green Earth	Environmental
				Environmental	Practitioner
				Consultants	
		2005	2008	Elmarie Du Toit	Manager
				Town Planning	
				Consultants	
		2003	2005	Pupkewitz	General Manager
				Megabuild	
		1995	2003	Agra Cooperative	Manager Trade
				Limited	
				Namibia	Chief Agricultural
		1989	1995	Development	Consultant
				Corporation	
				Ministry of	Agricultural
		1985	1988	Agriculture	Researcher

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Charl du Toit

APPENDIX E: CURRICULUM VITAE OF CARIEN VAN DER WALT

1. Position: **Environmental Consultant**

2. Name/Surname: Carien van der Walt

3. Date of Birth: 6 August 1990

4. Nationality: Namibian

5. Education:

Institution	Degree/Diploma	Years
University of Stellenbosch	B.A. (Degree) Environment and	2009 to 2011
	Development	
University of South Africa	B.A. (Honours) Environmental	2012 to 2013
	Management	

6. Membership of Professional Associations:

EAPAN Member (Membership Number: 113)

7. Languages:

Language	Speaking	Reading	Writing
English	Good	Good	Good
Afrikaans	Good	Good	Good

8. Employment Record:

From	То	Employer	Positions Held
07/2013	Present	Green Earth Environmental Consultants	Environmental
			Consultant
06/2012	03/2013	Enviro Management Consultants Namibia	Environmental
			Consultant
12/2011	05/2012	Green Earth Environmental Consultants	Environmental
			Consultant

9. Detailed Tasks Assigned:

Conducting the Environmental Impact Assessment, Environmental Management Plan, Public Participation, Environmental Compliance and Environmental Control Officer

Certification:
I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engage.
Carien van der Walt

APPENDIX F: ENVIRONMENTAL MANAGEMENT PLAN