

Project Name:	RENEWAL OF THE ENVIRONMENTAL CLEARANCE FOR THE CREATION OF A STREET PORTION ON ERF 8731, WINDHOEK		
The Proponent:	Motor Vehicle Accident Fund of Namibia (MVA Fund) P O Box 20919 WINDHOEK		
Prepared by:	Green Earth ENVIRONMENTAL CONSULTANTS 1st floor Bridgeview Offices & Apartments, No. 4 Dr Kwame Nkrumah Avenue, Klein Windhoek, Namibia PO Box 6871, Ausspannplatz, Windhoek		
Release Date:	November 2021		
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EXECUTIVE SUMMARY

Green Earth Environmental Consultants were appointed by the proponent, the Motor Vehicle Accident Fund of Namibia (MVA Fund), **to renew the environmental clearance** for the permanent closure of a portion of Erf 8597 (Viljoen Street), Windhoek as 'street' and the subdivision of Erf 6441, Windhoek to create a street portion (Erf 8731, Windhoek) for the purposes of the construction of a turning circle.

An Environmental Clearance Certificate (ECC) for the proposed activity was obtained 30 January 2019 therefore the Clearance Certificate will expire on 30 January 2022.

The closure procedures for the Portion of Erf 8697 as street and consolidation of the portion with Erf 8596 to create Erf 8730, Windhoek, has been completed. The relevant authorities (City of Windhoek, The Ministry of Urban and Rural Development and the Surveyor General) also approved the creation of the street portion on a Portion of Erf 6441, Windhoek (now Erf 8731, Windhoek). However, the street portion on Erf 8731 Windhoek must still be constructed. To be able to construct the street portion/turning circle, the ECC must be renewed.

In accordance with the Environmental Impact Assessment Regulations (GN 30 in GG 4878 of 6 February 2012) of the Environmental Management Act (No. 7 of 2007), the activities listed below, which forms part of the proposed operations, may not be undertaken without a renewed Environmental Clearance:

INFRASTRUCTURE

10.1 The construction of-(b) public roads

The proposed construction of the street portion will have the following key characteristics:

KEY CHARACTERISTICS				
Erf 8731, Windhoek will be converted into	The existing infrastructure on Erf 8731,			
a street to form a turning circle together	Windhoek will be demolished and			
with the Remainder of Erf 6441,	removed, and the area will be landscaped			
Windhoek.	and converted into a street portion to			
	create a turning circle to allow vehicles to			
	turn around as the new street is a cul-de-			
	sac.			

The environmental impacts of the proposed project are as follows:

POSITIVE IMPACTS	NEGATIVE IMPACTS	
Temporary employment will be created	Natural surface drainage systems and	
during construction of the turning circle.	channels might be affected.	
The flow of traffic as well as road safety will	There will be an increase in traffic in the	
be improved.	construction and operational phase due	

to vehicles entering and exiting the	
area.	
Dust and noise might be generated.	

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

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

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

The type of activities that is carried out on the site will not negatively affect the amenity of the locality and the activities will not adversely affect the environmental quality of the area. 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 managers and the proponent. 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. It is believed that the overall cumulative impact on the biophysical environment will be low and there will be a positive impact on the socio-economic environment.

The Environmental Impact Assessment Renewal 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 renewed Environmental Impact Assessment Report and Environmental Management Plan, the Environmental

Commissioner of the Ministry of Environment, Forestry and Tourism is herewith requested to:

- 1. Accept and approve the Environmental Impact Assessment Renewal.
- 2. Accept and approve the renewed Environmental Management Plan.
- 3. Issue an Environmental Clearance Renewal for the creation of the street portion on a Portion of Erf 6441, Windhoek (now Erf 8731, Windhoek) and for the following listed activities:

INFRASTRUCTURE

10.1 The construction of-(b) public roads

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LIST OF ABBREVIATIONS

EMP

EC **Environmental Clearance**

ECO **Environment Control Officer**

ΕIΑ **Environmental Impact Assessment Environmental Management Plan**

I&APs **Interested and Affected Parties**

Ministry of Agriculture, Water and Land Reform MAWLR

Ministry of Environment, Forestry and Tourism **MEFT**

1. INTRODUCTION

Green Earth Environmental Consultants were appointed by the proponent, the Motor Vehicle Accident Fund of Namibia (MVA Fund), to renew the environmental clearance for the permanent closure of a portion of Erf 8597 (Viljoen Street), Windhoek as 'street' and the subdivision of Erf 6441, Windhoek to create a street portion for the purpose of the construction of a turning circle.

In accordance with the Environmental Impact Assessment Regulations (GN 30 in GG 4878 of 6 February 2012) of the Environmental Management Act (No. 7 of 2007), the activities listed below, which forms part of the proposed operations, may not be undertaken without an Environmental Clearance:

INFRASTRUCTURE

10.1 The construction of-(b) public roads

The current Environmental Clearance Certificate was issued on 30 January 2019 and will expire on 30 January 2022. The closure procedures for the Portion of Erf 8697 as street and consolidation of the portion with Erf 8596 to create Erf 8730, Windhoek, has been completed. The relevant authorities (City of Windhoek, The Ministry of Urban and Rural Development and the Surveyor General) also approved the creation of the street portion on a Portion of Erf 6441, Windhoek (now Erf 8731, Windhoek). However, the street portion on Erf 8731, Windhoek must still be constructed. To be able to construct the street portion/turning circle, the ECC must be renewed.

The following Environmental Impact Assessment Renewal contains information on the project and the surrounding areas and activities.

2. TERMS OF REFERENCE

To be able to implement the project, a renewed 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 is:

- 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 activities 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 Renewal included the evaluation of the following: climate, water (hydrology), vegetation, geology, soils, social, 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. A renewed Environmental Clearance will only be obtained (from the DEA) once the EIA and EMP has been examined and approved for the listed activities.

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 area from the proponent and identified stakeholders. 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. PROJECT DESCRIPTION/SITE INFORMATION

3.1. LOCATION OF THE PROJECT SITE

Portion A of Erf 8730, Windhoek, upon which the MVA Fund Head Office is located, is in the Central Area of Windhoek south of Susanne Grau Heim old age home. Erf 8731, Windhoek is located directly west of Erf 8730 and directly south of the northern end of Viljoen Street. The locality of Erven 8730 and 8731, Windhoek, is shown on the plans below:

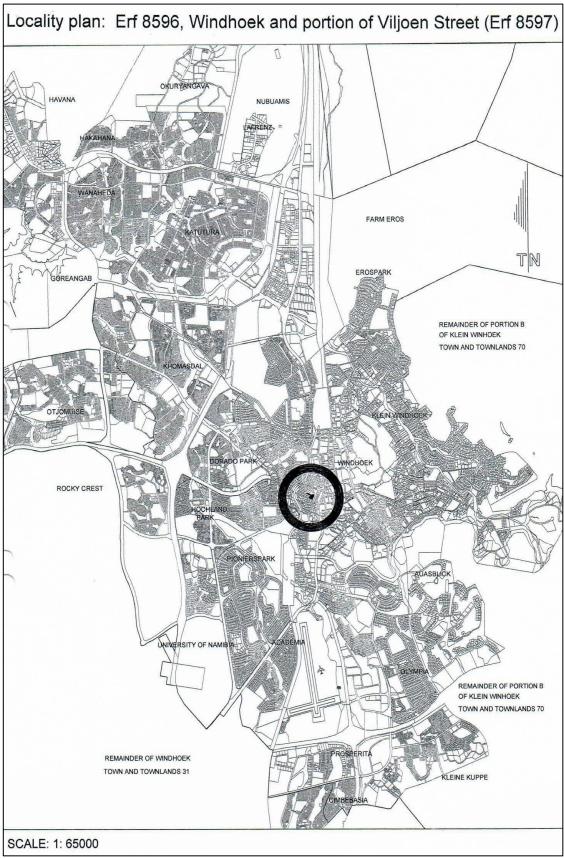


Figure 1: Project Site Area

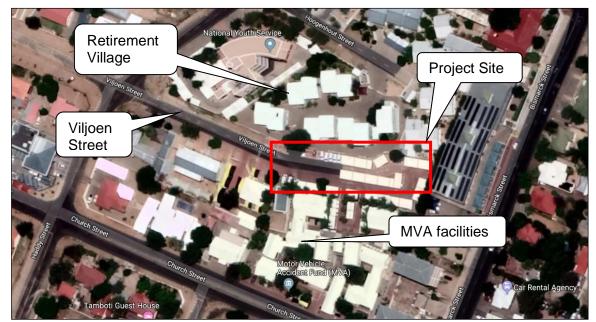


Figure 2: Photo of Project Area



Figure 3: Photo with indication of Erven



Figure 4: Project Site Street

3.2. PORTION SIZE, ZONING AND USE

Erf 8731, Windhoek (previously Portion 1 of Erf 6441, Windhoek) is 115m² in extent and is reserved as a street. It can thus only be used for street purposes from which vehicular and pedestrian access is allowed to the abutting erven. Erf 8731 was created from the subdivision of Erf 6441, Windhoek as it is required for the construction of a turning circle.

3.3. PROPOSAL AND MOTIVATION

The main part of the MVA Fund's offices is located on Erf 8730, Windhoek at the east end of Viljoen Street, just to the south of the Susanne-Grau-Heim (old age home). It is 7741m² and zoned 'office' with a bulk of 0.4. The main entrance of these buildings is from Church Street; however, there is also an entrance via the parking area from Viljoen Street's side. The rest of the MVA Fund's offices are located on the Remainder of Erf 6441, Windhoek which is accessed from Viljoen Street. See plan below showing the locality of the MVA Fund's Offices.

The growth of the MVA Fund's activities resulted in an increase of staff which means that additional parking area is required to accommodate the staff as well as visiting customers' vehicles. Since no additional parking spaces could be provided on Erven 6441 and 8596, the MVA Fund approached the City of Windhoek to purchase a portion of Viljoen Street for parking purposes.

The City of Windhoek per Resolution 249/09/2017 on 29 September 2017 approved the purchase of Portion A (±994m²) of Viljoen Street by the Motor Vehicle Accident Fund of Namibia to be consolidated with 8596, Windhoek. See attached a copy of Council Resolution 249/09/2017. The COW initially leased Portion A (±994m²) of Viljoen Street to the MVA Fund to be fenced in for parking purposes until the subdivision, closure and consolidation processes have been completed. The MVA Fund has already altered Portion A from a street to a parking area by enclosing it with a palisade fence, security gate and shade ports which are used for parking purposes. The topography of both Portions allows it to be used for street and parking purposes.

Cutting off Portion A of Viljoen Street for parking purposes means that the eastern Portion of Viljoen Street will become a cul-de-sac. A turning circle therefore must be created on the Remainder of Viljoen Street (Erf 8597, Windhoek) directly west of Portion A which will allow vehicles to turn around in the street upon accessing it. To create this turning circle as per the requirements of City of Windhoek, a portion (Portion 1) of ±115m² of Erf 6441, Windhoek is required. Council's resolution further stipulates that Portion 1 must be consolidated with Viljoen Street (Erf 8597, Windhoek) to be used for 'street' purposes.

To create these portions the following town planning and cadastral procedures were completed:

- Erf 8597, Windhoek (Viljoen Street) has been subdivided into 8729 (±994m²) and the Remainder of Erf 8597, Windhoek (±2,5747m²).
- Erf 8729, Windhoek (Viljoen Street) has been closed as 'street'.
- Erf 8729 has been consolidated with Erf 8596, Windhoek to from Erf 8730, Windhoek.
- Erf 6441, Windhoek has been subdivided into Erf 8731 (±115m²) and the Remainder of Erf 6441, Windhoek (±1225m²).
- Erf 8731, Windhoek has been reserved as street to become part of Viljoen street and be developed into a turning circle.

The City of Windhoek, Ministry of Urban and Regional Development and Surveyor General's approvals are in this report.

The creation of a public street or closure of public places like portions of streets are listed activities as per the stipulations of the Environmental Management Act (No. 7 of 2007) and the Environmental Impact Assessment Regulations (GN 30 in GG 4878 of 6 February 2012). An Environmental Clearance for these activities has been obtained. The Environmental Clearance certificate was issued 30 January 2019. A copy of the ECC is attached to this report.

The subdivision plans below show the creation of Portion A and Portion 1 as well as the consolidation plans for the consolidation of Portion A with Erf 8596 and Portion 1 with Erf 8597, Windhoek respectively.

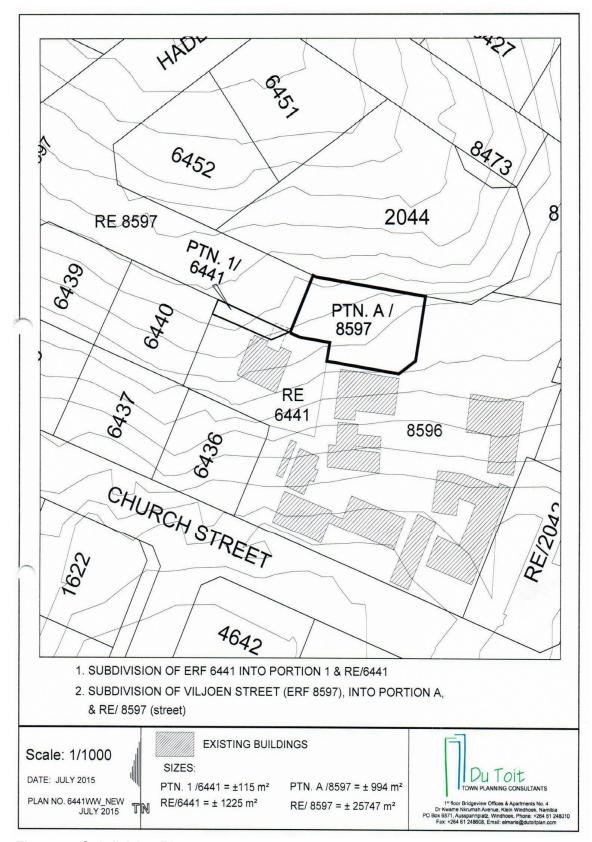


Figure 5: Subdivision Plan

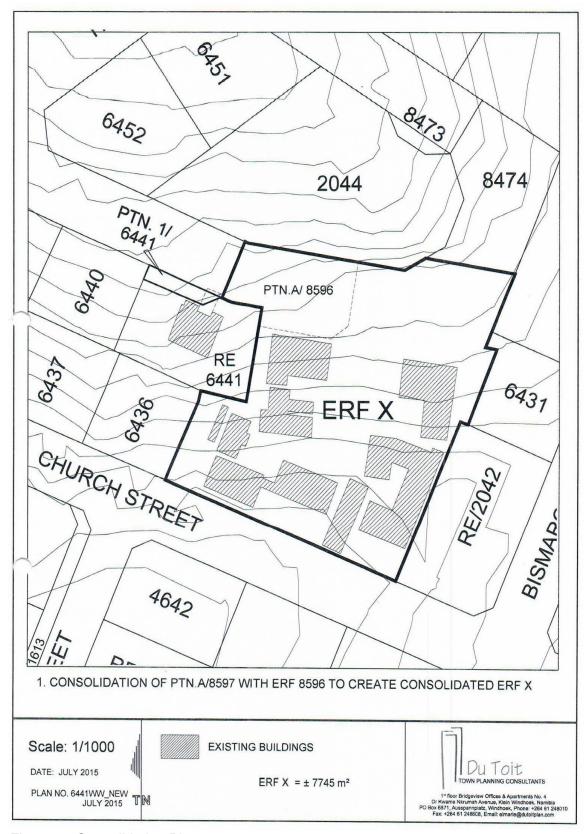


Figure 6: Consolidation Plan

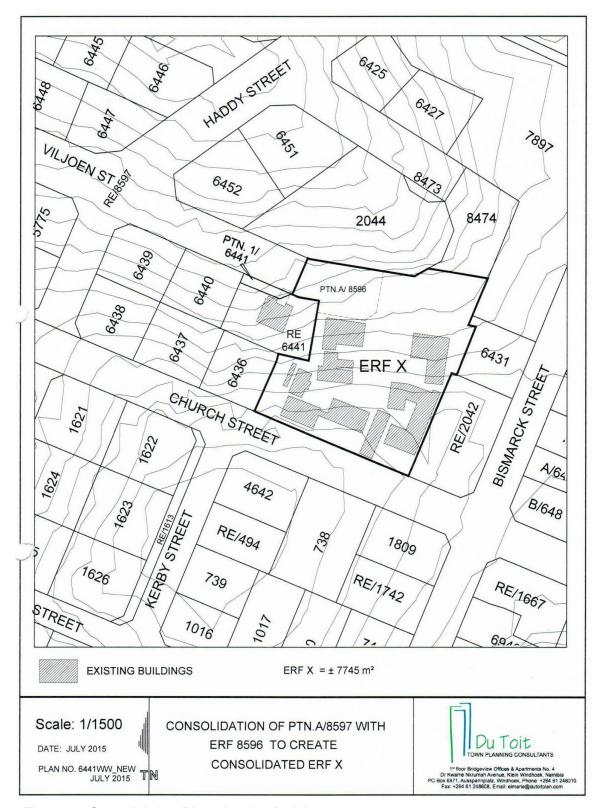


Figure 7: Consolidation Plan showing Buildings

4. 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 area in general were reviewed in order to determine potential environmental issues and concerns.

b) Site assessment (site visit)

A site visit was conducted in the immediate neighbourhood and the surrounding area was assessed. Previous site visits to investigate the environmental parameters on site to enable further understanding of the potential impacts on site also took place.

c) Public participation

The public were invited to give input, comments and opinions regarding the proposed project. Notices were placed in the New Era and the Namibian on two consecutive weeks (28 June and 2/5 July 2018) inviting public participation and comments on the proposed project were requested. Notices were also displayed on site and at the Municipal notice boards of City of Windhoek. The closing date for any questions, comments, inputs or information was 27 July 2018.

The permanent closure notice of Portion A of Erf 8597, (Viljoen Street), Windhoek, as street was included in the Government Gazette of 16 July 2018 (No. 6649) under No. 365.

c) 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.

5. APPROVALS OBTAINED

5.1. MINISTRY OF ENVIRONMENT, FORESTRY AND TOURISM

The Ministry of Environment, Forestry and Tourism issued an Environmental Clearance Certificate on 30 January 2019 which will expire on 30 January 2022. See below a copy of the ECC:



MINISTRY OF ENVIRONMENT AND TOURISM

Tel: (00 26461) 284 2111 Fax: (00 26461) 232 057

E-mail: damian.nchindo@met.gov.na

Enquiries: Mr. Damian Nchindo

Cnr Robert Mugebe & Dr Kenneth Kaunda Street Private Bag 13306 Windhoek Namibia

30 January 2019

OFFICE OF THE ENVIRONMENTAL COMMISSIONER

The Chief Executive Officer
Motor Vehicle Accident Fund of Namibia
P. O Box 20919
Windhoek, Namibia

Dear Sir / Madam

SUBJECT: ENVIRONMENTAL CLEARANCE FOR THE PROPOSED CLOSURE OF PORTION A OF ERF 8597 (VILJOEN STREET), AND CREATION OF A STREET PORTION ON ERF 6441, WINDHOEK, KHOMAS REGION

The Environmental Impact Assessment and Environmental Management Plan submitted is sufficient as it made adequate provisions of the environmental management concerning the project's activities. From this perspective, regular environmental monitoring and evaluations on environmental performance should be conducted. Targets for improvements should be established and monitored throughout this process.

This Ministry reserves the right to attach further legislative and regulatory conditions during the construction and operational phase of the project. From this perspective, I issue this clearance with the condition that consent have to be obtained from City of Windhoek prior to project commencement

On the basis of the above, this letter serves as an environmental clearance for the project to commence. However, this clearance letter does not in any way hold the Ministry of Environment and Tourism accountable for misleading information, nor any adverse effects that may arise from this project's activities. Instead, full accountability rests with Motor Vehicle Accident Fund of Namibia and their consultants.

This environmental clearance is valid for a period of (three) 3 years, from the date of issue unless withdrawn by this office.

Yours sincerely.

Teofilus Nghitila

ENVIRONMENTAL COMMISSIONER

"Stop the poaching of our rhinos"

All official correspondence must be addressed to the Permanent Secretary

5.2. CITY OF WINDHOEK

City of Windhoek approved the purchase of a portion of Viljoen Street (Erf 8597), Windhoek to be consolidated with Erf 8596, Windhoek on 29 September 2017. See copy of approval letter below:



- 8 That the applicant be responsible for the closure, town planning and cadastral procedures, i.e. application to Townships Board, land surveying and registration of the newly created erven, and all costs involved.
- That Portion 1 (\pm 115 m² in extent) of Erf 6441, Windhoek be transferred to the City of Windhoek for street purposes and the value of the land be deducted from the purchase price for Portion A (\pm 994 m² in extent) of Erf 8597, Windhoek.
- That it be noted that the value of Portion 1 (± 115 m² in extent) of Erf 6441, Windhoek is N\$179 400.00 and that the amount be deducted from the value of Portion A (± 994 m² in extent) of Erf 8597, Windhoek which amounts to N\$1 551 000.00, as determined by the Strategic Executive: Housing, Property Management and Human Settlement.
- 11 That the applicant purchase Portion A (± 994 m² in extent) of Erf 8597, Windhoek for an amount of N\$1 371 600.00 and that an amount of N\$101 189.20 be contributed to the Urban Arterial Account (UAA).
- 12 That Portion A (\pm 994 m^2 in extent) of Erf 8597, Windhoek be offered for sale to the applicant and owner of Erf 8596, Windhoek, subject to the following conditions:
- 12.1 That surface stormwater run-off be accommodated according to clause 35 of the Windhoek Town Planning Scheme (see Info 35 of the Town Planning Scheme), stating:
- 12.1.1 That no stormwater drainage pipe, canal, work or obstruction (except stormwater drain pipes, canal or work which have been authorised in writing by the local authority or which have been or may be built, laid or erected in terms of any law) be constructed on or over the property or located in such a way that:
- The flow of stormwater from higher lying property to lower lying property is impeded or obstructed and through which any property is or may be endangered; or
- The flow of a natural watercourse (in which the local authority allow flood water to run-off, be discharged or to be canalised) is or can be changed, canalised or impeded.
- 12.1.2 That the maintenance of such stormwater pipe, channel or work be the responsibility of the owner of the concerned property.
- 12.2 That prior approval be obtained from the Strategic Executive: Housing, Property Management and Human Settlement if the accommodation of the stormwater on the erf is contemplated.
- 12.3 That engineering drawings on how the stormwater would be accommodated to the satisfaction of the Strategic Executive: Housing, Property Management and Human Settlement be submitted for approval simultaneously with the building plans.
- 12.4 That all existing stormwater pipes, outlets and inlets or any other stormwater system be clearly indicated on all building plans submitted, prior to the approval thereof.
- 12.5 That no building plans be approved until the stormwater conditions are met.
- 12.6 That the applicant take note that a sewer line is situated on Erf 8596, Windhoek and on the applied portion of Erf 8597, Windhoek, and that no permanent structures be erected within 1.5 metre of the sewer line.
- 12.7 That the applicant take note that there is a 110 mm diametre water line that pass through the applied portion of Erf 8597 and Erf 8596, Windhoek.
- 12.7.1 That a 5 metre wide servitude be surveyed and registered over the municipal water line that pass through the applied portion of Erf 8597 and Erf 8596, Windhoek.
- 12.7.2 That all surveying and registration costs due to the water line be for the applicant's account.
- 12.7.3 That the Deed of Sale only be signed after the servitude mentioned in paragraph 12.7.1 above is registered over the municipal water line that run through the applied portion of Erf 8597 and Erf 8596, Windhoek.

- 12.8 That should any municipal electrical infrastructure need to be relocated, dismantled or replaced as per request received from the applicant, all cost related thereto be for the applicant's account.
- 12.9 That only one (1) service connection per erf be allowed from the municipal electrical network.
- 12.10 That only one (1) additional meter point be allowed for an approved flat on erven that are zoned 'single residential', and for more meter points, the erf be rezoned to 'general residential'.
- 12.11 That for erven that are zoned 'general residential', 'business', 'office', 'institutional' or 'industrial' and a service connection larger than 3 x 60 ampere is required, the applicant and/or his/her electrical engineering representative contact the Strategic Executive: Electricity, well in advance, during the planning stage, before any building plans have been approved to determine whether the existing electrical network can handle the additional loading or whether a substation building or site is to be provided by the applicant at his/her own cost to incorporate an additional substation; and also to determine the financial contribution to be made by the applicant towards the upgrade cost of the network.
- 12.12 That bollards be provided that prohibit parking around the turning circle and to preserve pedestrian movement.
- 12.13 That the stairs and ramps be relocated to be outside the road reserve.
- 12.14 That the applicant sign a Development Agreement for the construction of the circle.
- 13 That the applicant-owner of Erf 8596, Windhoek:
- 13.1 Submit proof to the Strategic Executive: Housing, Property Management and Human Settlement not later than six (6) months from the date of this Council Resolution that the Environmental Management Clearance Certificate has been obtained and the closure, proposed subdivision, consolidation has been submitted to the Townships Board for consideration.
- 13.2 Submit proof to the Strategic Executive: Housing, Property Management and Human Settlement within sixty (60) days after the approval for consolidation that a surveyor has been appointed.
- 13.3 Submit draft erf diagrams to the Strategic Executive: Housing, Property Management and Human Settlement within three (3) months after such appointment of the Surveyor, indicating that the survey has been completed and that the diagrams have been submitted to the Surveyor General for approval.
- 13.4 Sign the Deed of Sale not later than thirty (30) days after approval of the diagrams and having been requested to do so by the Strategic Executive: Housing, Property Management and Human Settlement and pay the purchase price in line with Council Policy, also in line with provisions of paragraph 11 of this Council Resolution.
- 14 That should the owner of Erf 8596, Windhoek fail to comply with any of the conditions stipulated in paragraph 13 above, the allocation of Portion A (\pm 994 m² in extent) of Erf 8597, Windhoek be cancelled.
- That should the purchaser fail to finalise the sale within eighteen (18) months from the date of this Council Resolution, the allocation be cancelled: Provided that, should extension for the finalisation of the sale be requested and granted, the Strategic Executive: Housing, Property Management and Human Settlement reallocate the property at a revised price.
- That should the owner of Erf 8596, Windhoek be interested in taking occupation of Portion A $(\pm 994 \text{ m}^2 \text{ in extent})$ of Erf 8597, Windhoek prior to conclusion of the sale, it be leased at a rental of 10% of the purchase price and further subject to annual escalation in line with the Namibia Inflation Rate, and draft diagrams being available.
- 17 That backdated rent for the amount of N\$411 480.00 (calculated at 10 % of the purchase price per annum, thus 10 % of N\$1 371 600.00 = N\$137 160.00 x three (3) years), be charged for having occupied the land of the previously approved turning circle without having finalised the land transaction.

- That the sale and lease of Portion A (\pm 994 m^2 in extent) of Erf 8597, Windhoek by private treaty be advertised in terms of section 63(2) of the Local Authorities Act, 1992 (Act 23 of 1992).
- 19 That the Chief Executive Officer (Corporate Legal Adviser) draft the Sales Agreement.
- 20 That the resolution be implemented prior to confirmation of the minutes."

Kindly indicate in writing and within thirty (30) days hereof whether the conditions of the Council Resolution are acceptable to you. Should you be in agreement and have accepted the above conditions, kindly proceed to implement same especially the paragraphs that deals with the town planning and cadastral procedures which are to be finalized prior to the sale taking place.

Trusting that you find the above in order.

Yours sincerely

Mrs. S. Simpson

Manager: Property Management Division

5.3. MINISTRY OF URBAN AND RURAL DEVELOPMENT

The Townships Board on 6 December 2018 under Item 424/2018 approved the permanent closure of Erf 8597 (street) and consolidation with Erf 8596 and subdivision of Erf 6441, Windhoek. See copy of the approval letter below:



Republic of Namibia

Ministry of Urban and Rural Development

Enquiries; H. N. Van Wyk Tel: (+264+61) 297-5230 Fax: (+264+61) 297-5305 Email: hvanwyk@murd.gov.na Government Office Park Luther Street Private Bag 13289 Windhoek, Namibia

Our Ref.: 17/4/1/W3 Your Ref.: Date: 22 February 2019

Du Toit Town Planning Consultants P.O Box 6871 Ausspannplatz WINDHOEK

Dear Madam

SUBJECT: WINDHOEK: PERMANENT CLOSURE OF A PORTION OF ERF 8597 (STREET); CONSOLIDATION WITH ERF 8596 AND SUBSEQUENT SUBDIVISION OF ERF 6441

- The attached Townships Board Resolution under Item 424/2018 dated 06 December 2018 has been approved.
- 2. Attached please find the Original Subdivision Certificate for registration purposes.

Yours faithfully

TOWNSHIPS BOARD SECRETARIAT

All official correspondence must be addressed to the Executive Director



REPUBLIC OF NAMIBIA

MINISTRY URBAN AND RURAL DEVELOPMENT

Township and Division of Land Ordinance, 1963

CIERTIFICATE

I hereby certify, in terms of section 19 (7) of the Townships and Division of Land Ordinance, 1963 (Ordinance 11 of 1963) that I have approved the subdivision of:

Erf 6441

in the Township of

Windhoek

Into

two portions

designated.

Erf 8731 (street, free of conditions), Windhoek and the Remainder of Erf 6441, Windhoek.

Please Note: This subdivision certificate is only valid for two years from date of notification in terms of section 19 (13) of the Townships and Division of Land Ordinance, 1963 (Ordinance 11 of 1963) subject to the conditions as attached hereto:

Application may be made for extension of time within this two year period, after which this permission shall lapse and re-application shall be required to enable registration.

2 TEB 2019 Printers

Acting Deputy Director Division Planning Item Date

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424/2018 17/4/1/W3

06 December 2018

WINDHOEK: PERMANENT CLOSURE OF A PORTION OF ERF 8597 (STREET); CONSOLIDATION WITH ERF 8596 AND SUBSEQUENT SUBDIVISION OF ERF 6441 (DU TOIT TOWN PLANNING CONSULTANTS) (Whk.89-MG-5AC-V4)

The Board recommended that -

- a) Townships Board Resolution Item 11/2012 dated 07 February 2012 be cancelled:
- the permanent closure of a portion of Erf 8597 (street), Windhoek as approved by the Municipal Council of Windhoek is confirmed;
- c) the closed street portion be converted into Erf 8729 (formerly street), Windhoek;
- d) Erf 8729 (formerly street), Windhoek be consolidated with Erf 8596, Windhoek into Erf 8730, Windhoek simultaneously with transfer;
- e) Erf 6441, Windhoek be subdivided into Erf 8731 (street, free of conditions), Windhoek and the Remainder of Erf 6441, Windhoek;
- f) the conditions registered against Erven 6441 and 8596, Windhoek be cancelled and the following conditions be registered against Erf 8730 and the Remainder of Erf 6441, Windhoek; and

IN FAVOUR OF THE LOCAL AUTHORITY

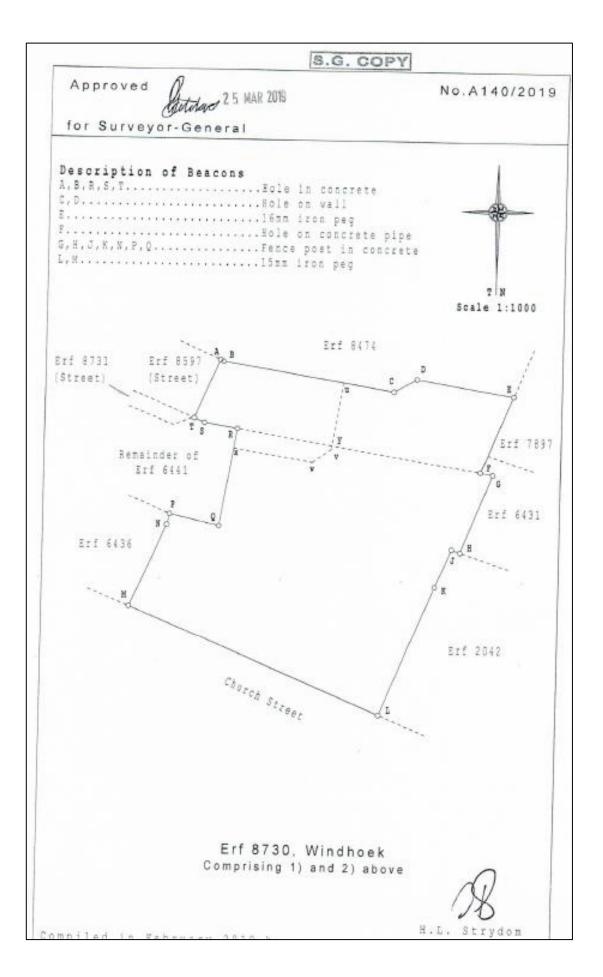
- A. The erf must only be used or occupied for purposes which are in accordance with and the use or occupation of the erf shall at all times be subject to the provisions of the Windhoek Town Planning Scheme prepared and approved in terms of the Town Planning Ordinance, 1954 (Ordinance 18 of 1954).
- B. The building value of the main building, excluding the outbuilding to be crected on the erf shall be at least four times the prevailing valuation of the erf.
- g) a 5 metre wide water pipeline servitude be surveyed and registered over Erf 8730, Windhoek in favour of the Local Authority.

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5.4. THE SURVEYOR GENERAL

The Surveyor General approved the diagrams of the newly created erven. See copy of the approved diagrams below:

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Situate in the Mur Registration Divi: (honas Region Republic of Namiba (urveyed in Februs	ts 115 sq: 31 (Stree V nicipal Andron K la	у те	FERF 6	being 441 Stryd ad Surve	iom
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6. REASON FOR DELAY IN IMPLEMENTATION OF PROJECT

The MVA Fund could not start with the construction of the turning circle (street portion) due to a lack of funds. Their income is also currently under severe constraints due to the impact of Covid 19 as well as the general state of Namibia's Economy. It is however their intention to finalise the construction of the turning circle in the next 3 years when the required funding becomes available. The ECC must be renewed to allow the MVA to construct the turning circle.

7. ASSUMPTIONS AND LIMITATIONS

It is assumed that the information provided by the proponent (the Motor Vehicle Accident Fund of Namibia), Du Toit Town Planning Consultants, the Engineers and City of Windhoek is accurate. No alternative portions/erven/land for the proposed creation and closure of street were considered. This specific land is required because of the proximity to the project site. 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.

8. ADMINISTRATIVE, LEGAL AND 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 for the proposed project are the following:

- The Namibian Constitution
- The Environmental Management Act (No. 7 of 2007)
- The Local Authorities Act (No. 23 of 1992)
- The Windhoek Town Planning Scheme and Council's Policies
- · 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*).

CONCLUSION AND IMPACT

In considering the environmental rights, the Motor Vehicle Accident Fund of Namibia (MVA Fund) should consider the following in devising an action plan in response to the articles:

- Implement a "zero-harm" policy 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 Motor Vehicle Accident Fund of Namibia (MVA Fund)'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 Renewal and an Environmental Management Plan (EMP) be conducted for the following listed activities in order to obtain an Environmental Clearance Certificate:

INFRASTRUCTURE

10.1 The construction of-(b) public roads

Cumulative impacts associated with the project must be included as well as public consultation. The Act further requires all major industries 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. They 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

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

The proposed activities have been assessed in terms of the Environmental Management Act (No. 7 of 2007) and the Regulations (2012). From the assessment, it can be concluded that the activities will have impacts on the prevailing environment but that the negative impacts can be sufficiently mitigated and managed by the Environmental Management Plan which is part of this document.

THE LOCAL AUTHORITIES ACT (NO. 23 OF 1992)

The purpose of the Local Authorities Act is to provide for the determination, for purposes of local government, of local authority councils; the establishment of such local authority councils; and to define the powers, duties and functions of local authority councils; and to provide for incidental matters.

The Local Authorities Act defines a 'street' or as follows:

"street" means any road, thoroughfare, pavement, sidewalk, lane or other right of way set apart for the use and benefit of residents in a local authority area.

Part IX of the Local Authorities Act deals with streets and public places. Article 48 and 49 of the Act deals with the 'construction of streets and public places' and 'construction of culvert crossings'

In accordance with Article 48:

Construction of streets and public places

- 48. (1) For purposes of the provisions of section 30(1)(e), a local authority council may -
 - (a) construct or lay drains, culverts, bridges, sewers, water-mains, underground drains, electric mains, cables, lines, poles and pipes in streets and public places constructed in terms of that section.
 - (b) construct in any public place swimming baths, public baths, zoological or botanical gardens, aquariums, pavilions, dressing rooms, public conveniences and other public facilities, and, with the approval of the Minister and subject to such terms and conditions as may be determined by him or her, let or grant the right to use any such public place.
 - (c) provide and carry on refreshment rooms, cafes and restaurants in any public place, and, with the approval of the Minister and subject to such terms and conditions as may be determined by him or her, let any such refreshment room, cafe or restaurant.
 - (d) provide such apparatus or equipment as may be necessary for use in any game, sport or other recreation in any public place.
 - (e) alter in any manner whatsoever any street or public place.
 - (f) light streets and public places.
 - (g) erect road traffic signs.
 - (h) adorn any public place by any architectural or other scheme of ornamentation, including statues, monuments, fountains or any other structures; and
 - (i) generally, perform or carry out any other function which is necessary for or conducive to its powers in relation to the construction of streets and public places in its area.
- (2) A local authority council shall not construct any street or public place in or on any townlands situated within its area without the prior approval in writing of the Minister.
- (3) Notwithstanding the provisions of section 33, the owner of any immovable property who has suffered any damage or loss in consequence of the alteration of any street by way of the lowering or raising of the level, or the narrowing or widening, of any street in which such immovable property is situated shall be entitled to such compensation as may be

determined by mutual agreement between such owner and the local authority council in question or, in the absence of any such agreement, by arbitration.

In accordance with Article 49:

Construction of culvert crossings

- 49. A local authority council may, at the request of the owner or occupier of any immovable property fronting a street -
 - (a) construct and maintain culvert crossings from such immovable property to the street, and recover the costs of the construction of such crossings from such owner or occupier.
 - (b) construct, pave and maintain the sidewalk or pavement in front of such immovable property or any part of its width in a special manner approved by the local authority council and desired by such owner or occupier, and recover the costs from such owner or occupier in so far as such costs exceed the costs of its construction in the ordinary manner.

CONCLUSION AND IMPACT

The creation of a street portion has been done in accordance with the stipulations of Article 48 and 49 of the Act. Public notices have been displayed on the site, the municipal notice board and two daily newspapers. No objections/comments to the proposed alignment and construction of the street were received. The Townships Board approved the subdivision of Erf 6441, Windhoek to create Erf 8731 for the creation of a turning circle. The new erven have been surveyed and the diagrams were approved.

THE WINDHOEK TOWN PLANNING SCHEME AND COUNCIL'S POLICIES

The Windhoek Town Planning Scheme (as amended in Windhoek Amendment Scheme No. 96 – promulgated 30 January 2018) applies to the area as indicated on the scheme maps and corresponds with the Townlands Diagram for Windhoek Town and Townlands. Erf 8731, Windhoek falls under/within the area of the Scheme.

The general purpose of this Scheme is the coordinated and harmonious development of the area of Windhoek (including, where necessary, the reconstruction and redevelopment of any part which has already been subdivided whether there are buildings on it or not) 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 in the process of development and improvement of communications, and where it is expedient in order to promote proper planning or development, may provide for the suspending the operation of any provision of law or any bylaw or regulation made under such law, in so far as such provision is similar to or inconsistent with any of the provisions so the Scheme.

According to the Town Planning Scheme, Erf 8731, Windhoek is reserved as a street. In terms of the Town Planning Scheme's provisions as well as other supporting policies, the City of Windhoek supports the proposed use of Erf 8731 as per the stipulations of Council Resolution 249/09/2017. Council set out the conditions with regard to the subdivision of Erf 6441, Windhoek to create Erf 8731 which will be used to construct the turning circle in Viljoen Street.

CONCLUSION AND IMPACT

The proposed closure of Portion A of Viljoen Street as street and the creation of Portion 8731, Windhoek for the construction of a turning circle have been considered under the stipulations of the Windhoek Town Planning Scheme and the Local Authorities Act. The construction of the turning circle will have a negative impact during construction but will have a positive impact once constructed and in use.

Table 1: Other laws, acts, regulations and policies				
	Laws, Acts, Regulations & Policie	es consulted:		
Electricity Act (No. 4 of 2007)	In accordance with the Electricity Act (No. 4 of 2007) which provides for the establishment of the Electricity Control Board and provide for its powers and functions; to provide for the requirements and conditions for obtaining licenses for the provision of electricity; to provide for the powers and obligations of licenses; and to provide for incidental matters: the necessary permits and licenses will be obtained.	The Proponent must abide to the Electricity Act.		
Pollution Control and Waste Management Bill (guideline only)	The Pollution Control and Waste Management Bill is currently in preparation and is therefore included as a guideline only. Of reference to the mining, Parts 2, 7 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	The Proponent must adhere to the Pollution Control and Waste Management Bill.		

	for air pollution licenses. Part 7	
	states that any person who sells,	
	stores, transports or uses any	
	hazardous substances or products	
	containing hazardous substances	
	shall notify the competent	
	authority, in 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 of substances	
	notified in 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	The Water Resources	The Act must be consulted.
Resources	Management Act (No. 11 of 2013)	Fresh water abstraction and
Management	stipulates conditions that ensure	waste-water discharge permits
Act	effluent that is produced to be of a	should be obtained when
	certain standard. There should	required.
	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.	
Solid and	Provides for management and	The Proponent must abide to
Hazardous	handling of industrial, business and	the solid waste management
Waste	domestic waste.	provisions.
Management		
Regulations:		
Local		
Authorities		
1992	TI O II	T. D
Hazardous	The Ordinance applies to the	The Proponent must abide to
Substances	manufacture, sale, use, disposal	the Ordinance's provisions.
Ordinance	and dumping of hazardous	
(No. 14 of	substances, as well as their import	
1974)	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.	
Atmospheric	Part 2 of the Ordinance governs	The proponent should adhere
Pollution	the control of noxious or offensive	to the stipulations of the
Prevention	gases. The Ordinance prohibits	Atmospheric Pollution
Ordinance of	anyone from carrying on a	Prevention Ordinance.
	, ,	Frevention Ordinance.
Namibia (No. 11 of 1976)	scheduled process without a	
11011976)	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	
	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
	the hunting and protection of wild	area, national park or unique
	animals, problem animals, fish and	environments.
	indigenous plant species. The	
	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 2001)	No removal of protected tree
	specifies that there be a general	species or removal of mature
	protection of the receiving and	trees should happen. The
	surrounding environment. The	Ministry of Environment,
	protection of natural vegetation is	Forestry and Tourism should
	of great importance, the Forestry	be consulted when required.
	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.	
EU Timber	Forest Stewardship Council (FSC)	The Proponent is advised to
Regulation:	came into effect in March 2013,	adhere to the regulation.
FSC (2013)	with the aim of preventing sales of	
,	illegal timber and timber products	
	in the EU market. Now, any actor	
	who places timber or timber	
	products on the market for the first	
	time must ensure that the timber	
	used has been legally harvested	
	acca hac been legally harvested	

		T
	and, where applicable, exported	
	legally from the country of harvest.	
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,	
	GG1617 of 1 August 1997).	
Communal	Communal land is land that	Consent should be obtained
Land Rights	belongs to the State and is held in	from Traditional Authorities,
Land Rights	trust for the benefit of the	Communal Boards, Chiefs,
	traditional communities living in	Kings, Queens etc. if required.
		Kings, Queens etc. ii required.
	those areas. Communal land	
	cannot be bought or sold, but one	
	can be given a customary land	
	right or right of leasehold to a part	
	of communal land in accordance	
	with the provisions of the	
	Communal Land Reform Act	
	(No. 5 of 2002) and Communal	
	Land Reform Amendment Act	
	(No. 13 of 2013). The Communal	
	Land Reform Act provide for the	
	allocation of rights in respect of	
	communal land to establish	
	Communal Land Boards to provide	
	for the powers of Chiefs and	
	Traditional Authorities and boards	
	in relation to communal land and to	
	make provision for incidental	
	matters. Consent and access to	
	land for the proposed project	
	should be requested from the	
	relevant traditional authority	
	through the Regional Council and	
Traditional	Regional Communal Land Boards. The Traditional Authorities Act	Traditional Authorities should
Authorities	(No. 17 of 1995) provide for the	be consulted when required.
Act (No. 17 of	establishment of traditional	
1995)	authorities, the designation and	
	recognition of traditional leaders; to	

	define their functions, duties and	
	powers; and to provide for matters	
	incidental thereto.	
Dedulie and		The second second second second
Public and	The Public and Environmental	The proponent and contractor
Environmental	Health Act (No. 1 of 2015) provides	should adhere to the Public
Health Act	with respect to matters of public	and Environmental Health Act.
	health in Namibia. The objects of	
	this Act are to: (a) promote public	
	health and wellbeing; (b) prevent	
	injuries, 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.	
Coronavirus	The current global Coronavirus	The proponent, contractor and
(Covid-19)	(Covid-19) pandemic and the	workforce should adhere to
Pandemic	associated State of Emergency	the restrictions and
Failueillic	and health restrictions globally may	
		regulations.
	result in some delays and logistic	
	disruptions. The pandemic might	
	have an impact on obtaining	
	equipment, specialist workforce	
	mobilisation and implementation of	
	the project. The health restrictions	
	may have an impact on campsite	
	set-up, traveling of	
	personal/workers and building of	
	the infrastructure. The proponent,	
	contractor and subcontractors	
	should adhere to all the	
	international, regional and local	
	Covid-19 health restrictions and	
	protocols.	
National	All protected heritage resources	The National Heritage Council
Heritage Act	discovered need to be reported	should be consulted when
(No. 27 of	immediately to the National	required.
2004)	Heritage Council (NHC) and	
	require a permit from the NHC	
	before it may be relocated. This	
	should be applied from the NHC.	
National	No person shall destroy, damage,	The proposed site for
Monuments	excavate, alter, remove from its	development is not within any
Act of	original site or export from	known monument site both
Namibia (No.	Namibia:	movable or immovable as
28 of 1969) as	(a) any meteorite or fossil; or	specified in the Act, however
20 01 1909) as	(a) any moteome or lossii, or	opcomed in the Act, however

amended until (b) any drawing or painting on in such an instance that any 1979 stone or a petroglyph known or material or sites or archeologic commonly believed to have been importance are identified, it executed by any people who will be the responsibility of the inhabited or visited Namibia before developer to take the required the year 1900 AD; or route and notify the relevant (c) any implement, ornament or commission. 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. **Public Health** Under this act, in section 119: "No The proponent will ensure that Act (No. 36 of person shall cause a nuisance or all legal requirements of the 1919) shall suffer to exist on any land or project in relation to protection premises owned or occupied by him of the health of their or of which he is in charge any employees and surrounding nuisance or other condition liable to residents is protected and will be injurious or dangerous to health." be included in the EMP. Relevant protective equipment shall be provided for employees in construction. 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 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 through clearance for protection and improvement of the soil, vegetation, sources and construction. resources of the Republic;

Air Quality Act	The Air Quality Act (No. 39 of	The proponent and contractor
(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 the activity will be followed and complied with in the planning, implementation and operations process.

A flowchart indicating the entire EIA process is shown in the Figure below:

42

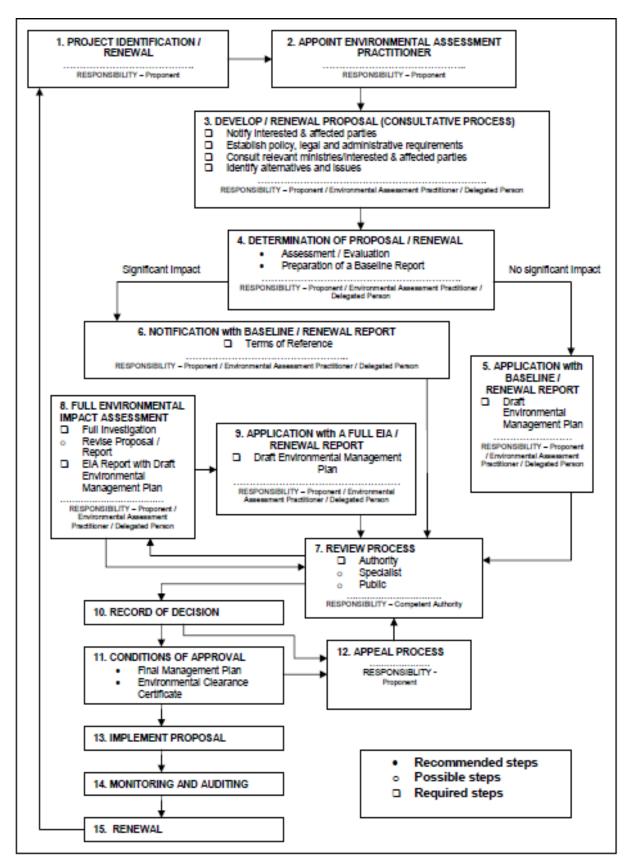


Figure 9: Flowchart of the assessment Process

9. AFFECTED NATURAL AND SOCIAL ENVIRONMENT

9.1. CLIMATE

In broad terms the climate can be described as semi-arid, with summer rainfalls and highest temperatures occurring during October and February. Maximum temperatures recorded in the area vary just under 40 degrees Celsius with an average annual temperature of more than 22 degrees Celsius (*Weather - the Climate in Namibia*, 1998 – 2012).

Rainfall in the form of thunderstorms is experienced in the area during the summer months between October and April. The annual average rainfall for Windhoek and surroundings is 350mm to 400mm however the average evaporation rate is 3 400mm a year (*Weather-the Climate in Namibia*, 1998 – 2012). Over 70% of the rainfall occurs in the in the summer months' period between November and March. Rainfall in the area is typically sporadic and unpredictable however the average highest rainfall months are January to March.

The prevailing wind direction is expected to prevent the spread of any nuisance namely noise and smell.

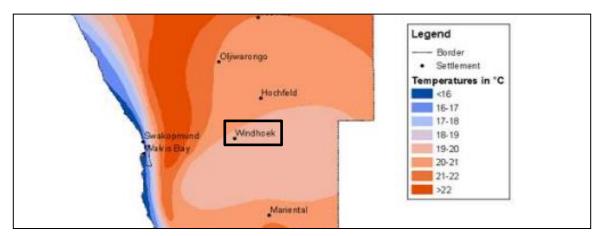


Figure 10: Average temperatures (Atlas of Namibia Project, 2002)

CONCLUSION AND IMPACT

The activities will not have an impact on the climate.

9.2. GEOLOGY, SOILS AND GEOHYDROLOGY

The project site is in the Khomas Trough on a geological area classified as Damara Supergroup and Gariep Complex. See *Map* below.

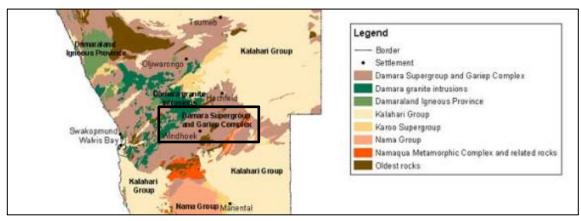


Figure 11: Geology of Namibia (Atlas of Namibia Project, 2002)

The Khomas Trough was formed during sedimentation of the Late Proterozoic Damara Sequence. The basin that was filled by a thick sequence, now preserved as metagreywackes and pelites of the Kuiseb Formation, which were subsequently multiply deformed and thrusted during the Damaran Orogeny. Minor lithologies included are graphite schists, calc-silicates and scapolite schists.

The project site is generally even with some higher areas at places. Natural slopes are seen near natural drainage courses on the project site. The soil is suitable for development however the soil is also erodible and should not be cleared unnecessarily from vegetation if not required for the placement of buildings or roads. Unnecessary clearing of soil will lead to erosion.

CONCLUSION AND IMPACT

The activities will not impact on the geology, soils and geohydrology of the area. The surface drainage canals will be kept open in order that water can flow through.

9.3. SURFACE WATER

Surface water flow in a catchment is largely determined by rainfall (quantity and intensity), potential evapotranspiration and catchment relief. A drainage system comprises all the elements of the landscape through which or over which water travels within that drainage basin. These elements include the soil, vegetation growing on it, geological materials underlying the soil, stream channels carrying surface water and the zones where water is held in the soil and moves below the surface. It also includes constructed elements such as pipes and culverts, cleared and compacted land surfaces, and pavement and other impervious surfaces unable to absorb water. The hydrology of a region is thus characterised by the collection, movement and storage of water through a drainage basin.

CONCLUSION AND IMPACT

It is required from the Proponent to submit building plans for the proposed turning circle. These building plans must provide for the management of stormwater or surface water

as per the City of Windhoek's Building Control Regulations to ensure that the natural flow of surface water is accommodated. The surface drainage canals will be kept open in order that water can flow through.

9.4. BIODIVERSITY AND VEGETATION

The project site forms part of the Tree and Shrub Savannah Biome (specifically the Highland Savannah). There are no vegetation/trees/shrubs on the project site. Human interference is largely visible. Vegetation was cleared on the majority of the project site and surrounding areas.

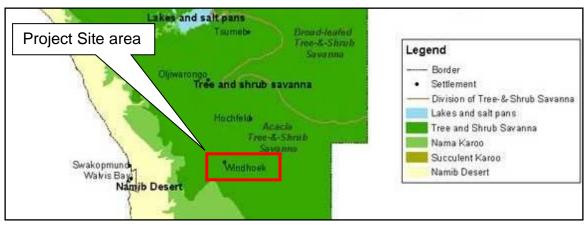


Figure 12: Biomes of Namibia (Atlas of Namibia, 2002)

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.

CONCLUSION AND IMPACT

Erf 8731 has no vegetation on it. The activities will have a low impact on vegetation, shrubs and trees.

9.5. SOCIAL-ECONOMIC COMPONENT

The Project Site is mainly surrounded by offices, business buildings and some residential uses. The proposed street closure, creation and construction and utilisation will have a positive impact on the socio-economic environment because additional parking and turning space will be created. This will create additional employment during construction. The streets/parking will be built with little disturbance to the environment and towards the individuals that are residing or working in the area. People residing in the area will benefit

from employment created during planning, construction and operation of the process. The construction impacts will be little if mitigated by the Environmental Management Plan.

CONCLUSION AND IMPACT

The activities will have a positive impact on the community since employment will be created during construction and it will have a positive impact on the flow and safety of traffic and pedestrian movement.

9.6. 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 in the area. However, the Namibian National Heritage Act (No. 27 of 2004) provides for the protection and conservation of places and objects of heritage significance and the registration of such places and objects and to provide for incidental matters.

CONCLUSION AND IMPACT

No heritage resources or graveyards were observed on the site or in the area.

9.7. SENSE OF PLACE

The proposed activities do not have a large/negative impact on the sense of place in the area. An untidy or badly managed site can detract from the ecological well-being and individuality of the area. Unnecessary disturbance to the surroundings could be caused by poorly planned or poorly managed operational activities. The project site should be kept neat and clean where possible. Vegetation should not be removed or harmed if not necessary since it covers topsoil which prevents erosion. Noise and dust should be limited because of the neighbouring activities.

CONCLUSION AND IMPACT

The impact on the sense of place will be low.

9.8. HEALTH

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). 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. The introduction

of external workers into the area is sometimes accompanied with criminal activities posing security risks for neighbours. However, the proponent will take certain measures to prevent any activity of this sort. The welfare and quality of life of the neighbours and workforce needs to be considered for the project to be a success on its environmental performance. Conversely, the process should not affect the overall health of persons related to the project including the neighbours.

CONCLUSION AND IMPACT

The proposed activities will have a low impact on the health of the affected community.

10. INCOMPLETE OR UNAVAILABLE INFORMATION

The number of people that will be employed on the site will depend on the type and scope of the activities.

11. IMPACT ASSESSMENT AND EVALUATION

The Environmental Impact Assessment sets out potential positive and negative environmental impacts associated with the project site. The following assessment methodology will be used to examine each impact identified, see *Table* below:

Table 2: 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)		
· ·	М	Medium (Manageable impacts)		
	н	High (Adverse impact)		

Probability:	Duration:
5 – Definite/do not 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/do not 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:

11.1. IMPACTS DURING CONSTRUCTION

Some of the impacts that the project will have on the environment includes: water will be used, electricity will be used, a sewer system might be altered and wastewater will be produced on the site that will have to be handled.

11.1.1. 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 will make use of water in its operational phase.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	1,7,0					Unmitigated	Mitigated
Water	-	2	2	4	2	L	L

11.1.2. ECOLOGICAL IMPACTS

The project will take place in a disturbed natural area which is home to little vegetation. Therefore, the impact on fauna and flora will be minimal. Disturbance of areas outside the designated working zone is not allowed.

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significa	ance
	3,60					Unmitigated	Mitigated
Ecology	-	1	1	2	1	L	L

11.1.3. 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. 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	4	3	М	L

11.1.4. NOISE IMPACT

An increase of ambient noise levels at the site is expected due to the proposed activities. Noise pollution due to heavy-duty equipment and machinery might be generated.

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 staff should be equipped with ear protection equipment.

Impact evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Significance	
	1,7,0					Unmitigated	Mitigated
Noise	-	2	2	4	2	М	L

11.1.5. 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 they 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	
	71.					Unmitigated	Mitigated
Safety & Security	-	1	2	4	2	М	L

11.1.6. 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	Significa	ance
						Unmitigated	Mitigated
Groundwater	-	2	2	4	2	M	L

11.1.7. SEDIMENTATION AND EROSION

The area/project site is sparsely covered by vegetation. The proposed activities will not increase the number of impermeable surfaces. The amount of storm water during rainfall events could increase erosion. Proper storm water management measures should be implemented.

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

11.1.8. GENERATION OF WASTE

This can be in the 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 equipment and machinery might also be generated.

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	Signific	ance
	1,7,0					Unmitigated	Mitigated
Waste	-	2	2	4	2	М	L

11.1.9. 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.

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.

Impact Evaluation

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

11.1.10. 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.

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	ance
	.,,,,					Unmitigated	Mitigated
Traffic	-	2	2	4	2	М	L

11.1.11. FIRES AND EXPLOSIONS

There should be sufficient water available for firefighting purposes. Ensure that all firefighting 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.

Impact Evaluation

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

11.1.12. SENSE OF PLACE

The placement, design and construction of the any 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 land and it will not be visually unpleasing.

Impact Evaluation

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

11.2. IMPACTS DURING THE OPERATIONAL PHASE

11.2.1. ECOLOGICAL IMPACTS

Staff, workers 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.

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	cance
	,,					Unmitigated	Mitigated
Ecology Impacts	-	2	2	4	2	L	L

11.2.2. 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	3	М	L

11.2.3. CONTAMINATION OF GROUNDWATER

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

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signific	ance
	1,764					Unmitigated	Mitigated
Groundwater contamination	-	2	2	4	2	L	L

11.2.4. GENERATION OF WASTE

Household waste from the activities at the site and from the staff working at the site will be generated. The 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	Significa	ance
	,,,,					Unmitigated	Mitigated
Waste Generation	-	1	2	2	2	М	L

11.2.5. 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 a 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	nce
	,,					Unmitigated	Mitigated
Failure of Reticulation Pipeline	-	2	2	4	2	L	L

11.2.6. FIRES AND EXPLOSIONS

There should be sufficient water available for firefighting purposes. Ensure that all firefighting 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.

Impact Evaluation

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

11.2.7. 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). 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	L	L

11.3. CUMULATIVE IMPACTS

These are impacts on the environment, which results from the incremental impacts when added to other past, present, and reasonably foreseeable future actions regardless of which 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 or diverse activities or undertakings in the area.

Possible cumulative impacts associated with the proposed project include sewer damages/maintenance, uncontrolled traffic and destruction of the vegetation or the 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.

Impact Evaluation

Aspect	Impact Type	Scale	Duration	Magnitude	Probability	Signifi	cance
						Unmitigated	Mitigated
Cumulative Impacts	-	2	3	4	2	L	L

12. CONCLUSION

In line with the Environmental Management Act (No 7 of 2007), *Green Earth Environmental Consultants* have been appointed to conduct an Environmental Impact Assessment Renewal for the creation of a street on Erf 8731, Windhoek. It is believed that the proposed activities can largely benefit the employment and turning space needs of the area.

The negative environmental impacts that may be visible in the operational phase of the project include: increases in solid waste generation for example food and plastics, etc., increased stress on waste disposal facilities, increase in water consumption and waste water generation, can result in an increase in traffic on the nearby roads and there can be an impact on the occupational health and safety of workers. However, this project is believed to be an asset to this area. Employment and turning space will be made available for which there is a need.

After assessing all information available on this project, *Green Earth Environmental Consultants* believe that the activities will not have a large negative effect on the environment if operations are conducted in accordance with the Environmental Management Plan.

13. RECOMMENDATION

It is therefore recommended that the Ministry of Environment, Forestry and Tourism through the Environmental Commissioner support and approve the Environmental Clearance Renewal for the creation of a street on Erf 8731, Windhoek and for the following listed activities:

INFRASTRUCTURE

10.1 The construction of-

(b) public roads

LIST OF REFERENCES

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Water Resource Management Act, 2004. *Office of the Prime Minister*. Windhoek. Namibia, pp. 6 – 67.

APPENDIX A: 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

Association:

Professional

7.	Languages:			<u>Speaking</u>	Reading	<u>Writing</u>
		English		Good	Good	Good
		Afrikaans		Good	Good	Good
8.	Employment	<u>From</u>	<u>To</u>	Employer		Position(s) held
	Record:	2009	Preser	nt Green Ear	th	Environmental
				Environme	ntal	Practitioner
				Consultan	is	
		2005	2008	Elmarie Du	ı Toit	Manager
				Town Plan	ning	
				Consultan	s	
		2003	2005	Pupkewitz		General Manager
				Megabuild		
		1995	2003	Agra Coop	erative	Manager Trade
				Limited		
						Chief Agricultural
		1989	1995			Consultant

Namibia Development

Agricultural Researcher

1985 1988 Corporation

Ministry of Agriculture

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 B: 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	niversity of Stellenbosch B.A. (Degree) Environment and	
	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 de-	scribes
myself, my qualifications, and my experience. I understand that any wilful misstatement des	scribed
herein may lead to my disqualification or dismissal, if engage.	

Carien van der Walt	

APPENDIX C: ENVIRONMENTAL MANAGEMENT PLAN