

Appendix 3

Proof of newspaper advertisements

Appendix 4

Communications to and from I&APs and Stakeholders



**DEVELOPMENT PLANNING,
ENVIRONMENT & MANAGEMENT UNIT
Land Use Management Branch**

166 KE Masinga Road, Durban 4001

PO Box 680, Durban 4000

Tel: 031 311 1111, Fax: 031 311 7776

www.durban.gov.za

Our Ref.: (21/11) DPM/EIA 786(S)
DEDTEA: -
Enquiries: Mrs D. van Rensburg
Telephone: 031 – 3117136

17 November 2017

Lokisa Environmental Consulting cc
P.O. Box 219
Groenkloof
Pretoria
0027

Att: Elaine Minnaar

Dear Sir/Madam,

**RE: DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED
TELECOMMUNICATION MAST, KZN30 WARNER BEACH, ERF 2961 OF
KINGSBURGH.**

With reference to the abovementioned Draft Basic Assessment Report, please be advised that various Municipal Departments have had sight of the proposal and the following comments are submitted for your attention:-

1. eThekweni Electricity Department.

The H.V. Department has no objection however please note:

- 1.1. The applicant must consult eThekweni Electricity's mains records (held in the drawing office at eThekweni Electricity Headquarters, 1 Jelf Taylor Crescent, for the presence of underground electrical services. In addition should any overhead line and/or servitude be affected, the specific permission of the Head: Electricity must be sought regarding the proposed development.
- 1.2. The relocation of MV/LV electrical services, if required in order to accommodate the proposed development, will be carried out at the expense of the applicant.

2. Environmental Planning and Climate Protection Department.

This Department has no objection to the proposed telecommunications base station in principle as it is not likely to impact on any valuable or sensitive ecosystems.

This Department will comment further on the Final Basic Assessment Report.

3. Land Use Management Branch.

A Special Consent application is required.

4. Strategic Spatial Planning Branch.

The Strategic Spatial Planning Branch (SSPB) has reviewed the above mentioned application and has the following comments:

- 4.1. In terms of the Spatial Development Framework (SDF 2017/2018) and the Central Spatial Development Plan (CSDP 2014/2015), the site is identified as a rail station.
- 4.2. The proposed construction of the Monopole Mast with associated Telecommunication Infrastructure on Erf 2961 Kingsburgh does not appear to be directly interfering with any residential properties. In view of the above, the Strategic Spatial Planning Branch has no objection to the proposal subject to:
 - a. Applicant meeting all the base Telecommunication Transceiver Station Environmental Health requirements in the eThekweni Cell Mast Policy (27/10/2005) specifically, Clause 34 (Base Telecommunications Transceiver Stations (cellular masts)) Section 4, No 4.1. and 4.4. of the Durban Town Planning Scheme.

Further, please note;

- This Branch's comment is subject to the applicant meeting all sector Department requirements.
- This support should not be deemed to be an approval of the eThekweni Municipality.
- This Branch reserves the right to comment further should the need arise.

5. Coastal, Stormwater and Catchment Management.

No comment from this Department.

6. Parks, Leisure and Cemeteries.

No comment received.

7. Pavement and Geotechnical Engineering.

No geotechnical objection.

8. eThekweni Transport Authority.

No objection to the proposed telecommunication mast.

9. Environmental Health Department.

The applicant is to meet all the base Telecommunication Transceiver Station Environmental Health requirements in the eThekweni Cell Mast Policy (27/10/2005).

10. eThekweni Water and Sanitation Department.

10.1. Sanitation Planning Branch.

This Branch has no objection to the installation of the proposed telecommunication mast.

10.2. Water Design Branch.

No objection to the proposal.

11. Durban Solid Waste.

This Department has no requirements for this proposal.

12. Disaster Management.

No comment from this Department.

13. Fire Safety.

No comment received.

Should you seek clarification on any of the above issues, please contact the writer on telephone: 031 - 3117136 or via e-mail: diane.vanrensburg@durban.gov.za In addition, the Department requests that a copy of the Environmental Authorisation be emailed to the same address.

Yours faithfully



29/11/2017

MANAGER: LAND USE MANAGEMENT
(Claire Norton: Professional Planner A/746/1993)



HEAD: DEVELOPMENT PLANNING, ENVIRONMENT AND MANAGEMENT

Copy To:
Department of Economic Development, Tourism and Environmental Affairs
Private Bag X 54321
Durban
4000



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Enq: Mr N Leburu
Ms T F Dlamini
Date: 11 December 2017
File: 16/2/7/U700/A1
Tel: 031 336 2741
Fax: 031 305 9915
E-mail: leburun@dws.gov.za

KWAZULU-NATAL REGION

P.O. Box 1018, Durban, 4000, 88 Joe Slovo (Field) Street, Southern Life Building, Durban, 4001
Tel: (031) 336 2700, Fax: (031) 304 9546. www.dws.gov.za

The Director
Lokisa Environmental Consulting
P.O. Box 219
Groenkloof
0027

ATTENTION: ELAINE MINNAAR

Dear Sir/Madam

RE: DRAFT BASIC ASSESSMENT REPORT FOR PROPOSED TELECOMMUNICATION MAST, KZN30 WARNER BEACH (ERF 2961 KINSBURGH), REF NR: LOK2017/014

Reference is made to the above-mentioned Report received by this Office on 03 October 2017.

This Department has the following comments with regard to the proposed project:

1. It is noted on page 1 that the Applicant intends to erect a 30m Monopole mast accompanied by support container at a site located in Kingsburgh within eThekweni municipality,.
 - 1.1. The Applicant must be authorized by this Department prior to the commencement of any activities which trigger water uses as defined in the NWA.
 - 1.2. It is the responsibility of the Applicant to identify all water uses applicable to the project in terms of Section 21 of the NWA and ensure that all applicable water uses are authorised as such. The Applicant must consult with this Department if clarity is required with regard to water uses and water use authorisations. These water uses are listed in Table 1.

Table 1: Water Uses as per Section 21 of the NWA

s21(a)	taking water from a water resource;
s21(b)	storing water;
s21(c)	impeding or diverting the flow of water in a watercourse;
s21(d)	engaging in a stream flow reduction activity (currently only commercial afforestation);
s21(e)	engaging in a controlled activity – activities which impact detrimentally on a water resource (activities identified in s37(1) or declared as such under s38(1)) namely: <ul style="list-style-type: none"> ➢ irrigation of any land with waste or water containing waste which is generated through an industrial activity or a waterwork; ➢ an activity aimed at the modification of atmospheric precipitation; ➢ a power generation activity which alters the flow regime of a water resource; or ➢ intentional recharge of an aquifer with any waste or water containing waste
s21(f)	discharging waste or water containing waste into a water resource through a pipe, canal, sewer, sea outfall or other conduit;
s21(g)	disposing of waste or water containing waste in a manner which may detrimentally impact on a water resource;
s21(h)	disposing in any manner of water which contains waste from, or has been heated in, any industrial or power generation process;
s21(i)	altering the bed, banks, course or characteristics of a watercourse;

s21(j)	removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people; and
S21(k)	using water for recreational purposes

- 1.3. Ms. Zama Hadebe (031 336 2700/2767) of this Department's Water Use Authorisation Section must be contacted for a pre-application meeting to determine the type of authorisations required and the requirements thereof. The onus is on the Applicant to timeously submit a complete water use licence application to this Department for water uses as stipulated under Section 21 of the NWA in time to avoid unnecessary delays.
- 1.4 Please note that if one or more of the water uses for the project requires a water use licence authorisation then by default all other water uses for the project, even those that are within the ambit of a General Authorisation, must be all applied for in a single Integrated Water Use Licence (IWUL) application.
2. This Department demands to know the source of water for this intended development. The Applicant must clearly indicate where and how the water required for construction will be sourced and brought to site.
 - 2.1. A copy of the Service Level Agreement (SLA) and/or proof of communication between the Applicant and the Water Services Provider which indicates that there would be enough capacity to cater for the construction needs of the project must be included in the Report.
 - 2.2. Should the Applicant require to abstract water from a water resource for construction, then this will constitute a water use in terms of Section 21(a) of the NWA and the Applicant will require prior authorization from this Department before commencement of any abstraction.
 - 2.3. Further to *item* 2.2. above the Applicant must indicate the proposed source to be used as well as details of the sustainability of that source in relation to the proposed abstraction rates and volumes.
3. Page 11 of the EMPr states, "There will be ablution facilities provided on the construction site for use by the construction personnel." It is required that these toilets must be situated out of the 1:100 year floodline of a watercourse or outside 100 metres from the riparian zone, whichever is greatest distance.
 - 3.1. The Report must clearly indicate who will be responsible for the management of the chemical toilets and where contents of these toilets will be emptied and safely disposed of.
 - 3.2. The Applicant must indicate how the pollution of water resources from the use of these facilities will be prevented and/or mitigated. There must be no unacceptable health hazards or impacts arising from the disposal of sewage and wastewater during and post construction.
 - 3.3. The Applicant must indicate using a construction site layout maps where the chemical toilets will be positioned during the construction phase of the project in order to ensure that they do not cause any pollution to water resources as well as pose a health hazard.
4. Page 11 of the EMPr states "No waste will be illegally dumped on site." The Applicant must elaborate on the following with respect to the management of waste generated during the project:
 - 4.1. Where will the waste generated be stored prior to collection for disposal and how will these areas be demarcated in order that they are clearly identifiable to ensure proper separation of waste and access control.

- 4.2. The responsible personnel for the collection of the different waste streams generated from the project and where the different waste streams will be disposed of.
- 4.3. Should the Applicant wish to make use of a private contractor instead of the eThekweni Municipal services to dispose of the waste generated from the project, the following would apply:
 - 4.3.1. The details of the contractor must be made available to this Department.
 - 4.3.2. Safe disposal certificates from a permitted waste disposal site must be kept at hand and must be furnished to this Department when requested.
5. It is vitally important that stormwater is managed along the construction route both during and after construction. The Applicant must develop a stormwater management plan.
 - 5.1. Where applicable, wetlands must be included as part of the detailed stormwater management plan should a certain percentage of stormwater from the site be allowed to drain towards the wetlands. It is important that any stormwater discharging to the wetland is dissipated prior to entering the permanent, seasonal or temporary zone of the wetland so that it does not cause gully erosion or negatively impact on the hydrological functioning of the wetland.
 - 5.2. The Applicant must also demonstrate in the plan how the following will be achieved:
 - 5.2.1. The separation of the stormwater drainage network system away from the waste water (water containing waste) system.
 - 5.2.2. How the construction route will be contoured to ensure free flow of runoff and to prevent the ponding of water.
 - 5.2.3. How drainage will be controlled to ensure that runoff from the construction route will not culminate in off-site pollution or result in damage to properties downstream of any stormwater discharge.
6. The Applicant must also elaborate on measures to:
 - 6.1. Prevent or minimise soil erosion on site i.e. pre-, during- and post- construction activities.
 - 6.2. What and how erosion control measures will be implemented in areas sensitive to erosion.

The Department requires that all the above mentioned comments be incorporated in the Final Basic Assessment Report and the Final Assessment Report must be submitted to this office for further review and comment.

This reply does not grant any exemption from the requirements of any applicable Act, Ordinance, Regulation or Bylaw.

Please do not hesitate to contact this Office should you have any concerns, comments or queries.

Yours faithfully



for PROVINCIAL HEAD: KWAZULU-NATAL

TFD/tfd/15684



**DEVELOPMENT PLANNING,
ENVIRONMENT & MANAGEMENT UNIT
Land Use Management Branch**

166 KE Masinga Road, Durban 4001

PO Box 680, Durban 4000

Tel: 031 311 1111, Fax: 031 311 7776

www.durban.gov.za

Our Ref.: (21/11) DPM/EIA 786(S)
DEDTEA: -
Enquiries: Mrs D. van Rensburg
Telephone: 031 – 3117136

17 November 2017

Lokisa Environmental Consulting cc
P.O. Box 219
Groenkloof
Pretoria
0027

Att: Elaine Minnaar

Dear Sir/Madam,

**RE: DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED
TELECOMMUNICATION MAST, KZN30 WARNER BEACH, ERF 2961 OF
KINGSBURGH.**

With reference to the abovementioned Draft Basic Assessment Report, please be advised that various Municipal Departments have had sight of the proposal and the following comments are submitted for your attention:-

1. eThekweni Electricity Department.

The H.V. Department has no objection however please note:

- 1.1. The applicant must consult eThekweni Electricity's mains records (held in the drawing office at eThekweni Electricity Headquarters, 1 Jelf Taylor Crescent, for the presence of underground electrical services. In addition should any overhead line and/or servitude be affected, the specific permission of the Head: Electricity must be sought regarding the proposed development.
- 1.2. The relocation of MV/LV electrical services, if required in order to accommodate the proposed development, will be carried out at the expense of the applicant.

2. Environmental Planning and Climate Protection Department.

This Department has no objection to the proposed telecommunications base station in principle as it is not likely to impact on any valuable or sensitive ecosystems.

This Department will comment further on the Final Basic Assessment Report.

3. Land Use Management Branch.

A Special Consent application is required.

4. Strategic Spatial Planning Branch.

The Strategic Spatial Planning Branch (SSPB) has reviewed the above mentioned application and has the following comments:

- 4.1. In terms of the Spatial Development Framework (SDF 2017/2018) and the Central Spatial Development Plan (CSDP 2014/2015), the site is identified as a rail station.
- 4.2. The proposed construction of the Monopole Mast with associated Telecommunication Infrastructure on Erf 2961 Kingsburgh does not appear to be directly interfering with any residential properties. In view of the above, the Strategic Spatial Planning Branch has no objection to the proposal subject to:
 - a. Applicant meeting all the base Telecommunication Transceiver Station Environmental Health requirements in the eThekweni Cell Mast Policy (27/10/2005) specifically, Clause 34 (Base Telecommunications Transceiver Stations (cellular masts)) Section 4, No 4.1. and 4.4. of the Durban Town Planning Scheme.

Further, please note;

- This Branch's comment is subject to the applicant meeting all sector Department requirements.
- This support should not be deemed to be an approval of the eThekweni Municipality.
- This Branch reserves the right to comment further should the need arise.

5. Coastal, Stormwater and Catchment Management.

No comment from this Department.

6. Parks, Leisure and Cemeteries.

No comment received.

7. Pavement and Geotechnical Engineering.

No geotechnical objection.

8. eThekweni Transport Authority.

No objection to the proposed telecommunication mast.

9. Environmental Health Department.

The applicant is to meet all the base Telecommunication Transceiver Station Environmental Health requirements in the eThekweni Cell Mast Policy (27/10/2005).

10. eThekweni Water and Sanitation Department.

10.1. Sanitation Planning Branch.

This Branch has no objection to the installation of the proposed telecommunication mast.

10.2. Water Design Branch.

No objection to the proposal.

11. Durban Solid Waste.

This Department has no requirements for this proposal.

12. Disaster Management.

No comment from this Department.

13. Fire Safety.

No comment received.

Should you seek clarification on any of the above issues, please contact the writer on telephone: 031 - 3117136 or via e-mail: diane.vanrensburg@durban.gov.za In addition, the Department requests that a copy of the Environmental Authorisation be emailed to the same address.

Yours faithfully



29/11/2017

MANAGER: LAND USE MANAGEMENT
(Claire Norton: Professional Planner A/746/1993)



HEAD: DEVELOPMENT PLANNING, ENVIRONMENT AND MANAGEMENT

Copy To:
Department of Economic Development, Tourism and Environmental Affairs
Private Bag X 54321
Durban
4000

Matimu

From: Matimu [matimu@lokisa.co.za]
Sent: Monday, 8 May, 2017 9:04 AM
To: 'Diane VanRensburg'
Cc: 'Elaine'; 'Emanuel Maluleke'
Subject: RE: NOTICE OF AN ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR BASIC ASSESSMENT PROPOSED TELECOMMUNICATION MAST FOR COMMCO HOLDINGS (PTY) LTD - KZN30 WARNER BEACH Ref Nr. LOK2017/014

Good Day Diane

eThekwini Municipality has been registered as an Interested and Affected Party (I&AP).

The Draft Basic Assessment Report will be made available for review once the report has been finalised. Review dates will be communicated in due course.

Kind Regards,

Ms Matimu Makamu
Lokisa Environmental Consulting cc
Tel: 012 346 7655
Fax: 012 346 6074
Cell: 073 475 3228
e-mail: matimu@lokisa.co.za

From: Diane VanRensburg [mailto:Diane.VanRensburg@durban.gov.za]
Sent: Friday, 5 May, 2017 2:39 PM
To: Matimu
Subject: RE: NOTICE OF AN ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR BASIC ASSESSMENT PROPOSED TELECOMMUNICATION MAST FOR COMMCO HOLDINGS (PTY) LTD - KZN30 WARNER BEACH Ref Nr. LOK2017/014

Dear Matimu,

Please will you register eThekwini Municipality as an Interested and Affected Party and provide the necessary documents for circulation/comment once available.

Kind Regards
Diane.

From: Matimu [mailto:matimu@lokisa.co.za]
Sent: Friday, May 05, 2017 10:58 AM
To: Diane VanRensburg
Cc: 'Emanuel Maluleke'
Subject: NOTICE OF AN ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR BASIC ASSESSMENT PROPOSED TELECOMMUNICATION MAST FOR COMMCO HOLDINGS (PTY) LTD - KZN30 WARNER BEACH Ref Nr. LOK2017/014

Dear Diane van Rensburg (eThekwini Municipality)

NOTICE OF AN ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR BASIC ASSESSMENT – PROPOSED TELECOMMUNICATION MAST FOR COMMCO HOLDINGS (PTY) LTD – KZN30 WARNER BEACH (ERF 2961 KINGSBURGH)



STAKEHOLDER COMMENTS ON NOTICE OF AN ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR BASIC ASSESSMENT – PROPOSED TELECOMMUNICATION MAST FOR COMMCO HOLDINGS (PTY) LTD – KZN30 WARNER BEACH (ERF 2961 KINGSBURGH ET) Ref Nr. LOK2017/014	
NAME	Mduduzi Wilson Mvune
ORGANISATION	Advocate Mvune's Chambers
TEL NUMBER	031 916 1925
FAX NUMBER	031 916 1925
EMAIL ADDRESS	advmvune@telkom.co.za
DATE	04 May 2017
COMMENTS:	Strongly object to the erection / installation of the proposed tower as it will obscure the view of the office and clients to the sea.

COMPLETED FORMS SHOULD BE FAXED/E-MAILED TO:

ELAINE MINNAAR FAX NUMBER: 012-346 6074 E-MAIL: elaine@lokisa.co.za



SITE DETAIL
SITE/AREA: **KZN30**
WARNER BEACH

SITE ADDRESS
KINGSWAY STREET
6BF 2963
KINGSBURGH

LATITUDE: **-30.063282°**
LONGITUDE: **30.657719°**
ASL: **17m**

APPROVAL
NAME: **RADKO ENGINEER**
SIGN: _____

NAME: _____
SIGN: _____

NAME: _____
SIGN: _____



Warren Patterson Planning
P.O. Box 46512
Claremont, Cape Town
781, (021 721) 552 5255
Email: warren@wppplanning.co.za

OFFICE
DRAWN BY: **H. Roje**
CHECKED BY: **W. Patterson**

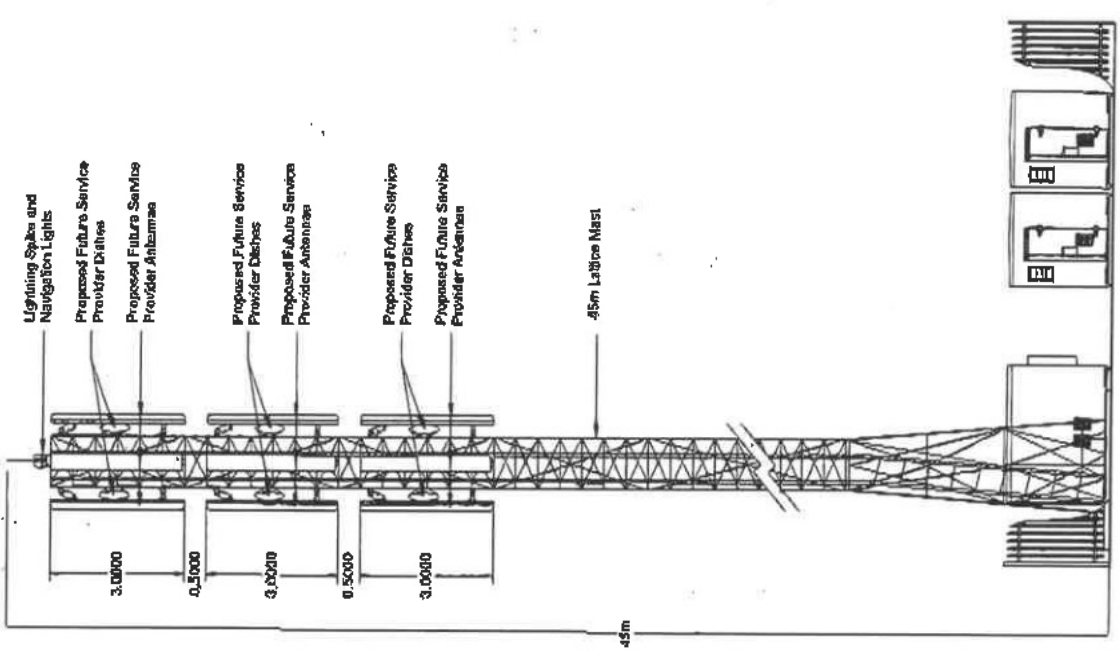
DATE: **09-09-2016**
DATE: **09-09-2016**

NO.	REVISION	LD	DATE
1	PHOTOGRAPHY	HR	09-09-2016

ELEVATION

SCALE: **NTS**
DRAWING NUMBER: **KZN30**
SECTION: **A05/05**
TYPE: **PRO**
BY: **A**

Elevation
KZN30



Appendix 5

Comments and Responses Report

WARNER BEACH
COMMENTS AND RESPONSES REPORT
MARCH 2018

Issue	Commentator	Date	Response
1. eThekwini Municipality requested to be registered as an I&AP and that the necessary documents be submitted to the Municipality for circulation/comment once available.	D. Van Rensburg eThekwini Municipality	5 May 2017	1. eThekwini Municipality is registered as an I&AP and the Draft Basic Assessment Report will be submitted for comment.
2. Strongly object to the erection/installation of the proposed tower as it will obscure the view of the office and clients to the sea.	M. Mvune	4 May 2017	2. The proposed mast will have a visual impact. Refer to Annexure F for the Visual Impact Assessment.
<p>3. Various departments at the eThekwini Municipality have had sight of the proposal and the following comments were made:</p> <p>3.1 eThekwini Electricity Department: The applicant must consult eThekwini Electricity's mains records (held in the drawing office at eThekwini Electricity Headquarters, 1 Jelf Taylor Crescent for the presence of underground electrical services. In addition should any overhead line and/or servitude be affected, the specific permission of the Head: Electricity must be sought regarding the proposed development.</p> <p>3.1.1 The relocation of MV/LV electrical services, if required in order to accommodate the proposed development, will be carried out at the expense of the applicant.</p> <p>3.2 Environmental Planning and Climate Protection Department: This Department has no objection to the proposed telecommunications base station in principle as it is not likely to impact any valuable or sensitive ecosystems. This Department will comment further on the Final Basic Assessment Report.</p> <p>3.3 Land Use Management Branch: A special Consent application is required.</p> <p>3.4 Strategic Spatial Planning Branch: The Strategic Spatial Planning Branch (SSPB) has reviewed the above mentioned application and has the following comments:</p> <p>3.4.1 In terms of the Spatial Development Framework (SDF 2017/2018) and the Central Spatial Development</p>	<p>Claire Norton and Diane Van Rensburg eThekwini Municipality – Development Planning & Management Unite Land Use Management Branch</p>	<p>16 November 2017</p>	<p>3.1 Comment Noted 3.1.1 Applicant is responsible for all expenses 3.2 Comment Noted 3.3 Consent has been requested 3.4.1 Site is at a rail station 3.4.2 Comment Noted 3.4.3 Comment Noted 3.4.4 Comment Noted 3.4.5 Comment Noted 3.5 Comment Noted 3.6 Comment Noted 3.7 Comment Noted 3.8 Comment Noted 3.9 Comment Noted 3.10 Comment Noted 3.11 Comment Noted 3.12 Comment Noted 3.13 Comment Noted</p>

<p>Plan (CSDP 203/204), the site is identified as a rail station.</p> <p>3.4.2 The proposed construction of the Monopole Mast with associated Telecommunication Infrastructure on Erf 2691 Kingsburgh does not appear to be directly interfering with any residential properties. In view of the above, the Strategic Spatial Planning Branch has no objection to the proposal subject to: Application meeting all the base Telecommunication Transceiver Station Environmental Health requirements in the eThekwini Cell Mast Policy (27/10/2005) specifically, Clause 34 (Base Telecommunications Transceiver Stations (cellular masts)) Section 4, No 4.1 and 4.4 of the Durban Town Planning Scheme.</p> <p>3.4.3 Further, please note; This Branch's comment is subjected to the applicant meeting all sector Department requirements.</p> <p>3.4.4 This support should not be deemed to be an approval of the eThekwini Municipality.</p> <p>3.4.5 This Branch reserves the right to comment further should the need arise.</p> <p>3.5 Coastal, Stormwater and Catchment Management: No comment from this Department.</p> <p>3.6 Parks, Leisure and Cemeteries: No comment received.</p> <p>3.7 Pavement and Geotechnical Engineering: No Geotechnical objection.</p> <p>3.8 eThekwini Transport Authority: No objection to the proposed telecommunications mast.</p> <p>3.9 Environmental Health Department: The applicant is to meet all the base Telecommunication Transceiver Station Environmental Health requirements in the eThekwini Cell Mast Policy (27/10/2005).</p> <p>3.10 eThekwini Water and Sanitation Department:</p> <p>3.10.1 Sanitation Planning Branch: This Branch has no objection to the installation of the proposed telecommunication mast</p> <p>3.10.2 Water Design Branch: No objection to the proposal.</p> <p>3.11 Durban Solid Waste: The Department has no requirements for this proposal.</p> <p>3.12 Disaster Management: No comment from this Department.</p>			
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3.13 Fire Safety: No comment received.			
<p>4. The department has the following comments with regards to the proposed project:</p> <p>4.1 It is noted on page 1 that the applicant intends to erect a 30m Monopole mast accompanied by support container at a site located in Kingsburgh within eThekweni Municipality.</p> <p>4.1.1 The applicant must be authorised by this Department prior to the commencement of any activities which trigger water uses as defined in the NWA.</p> <p>4.1.2 It is the responsibility of the Applicant to identify all water uses applicable to the project in terms of Section 21 of the NWA and ensure that all applicable water uses are authorised as such. The applicant must consult with this department if clarity is required with regard to water uses and water use authorisations.</p> <p>4.1.3 Ms. Zama Hadebe (031 336 2700/2767) of this Department's Water use Authorisation Section must be contacted for a pre-application meeting to determine the type of authorisations required and the requirements thereof. The onus is on the Applicant to timeously submit a complete water use licence application to this Department for water uses as stipulated under Section 21 of the NWA in time to avoid unnecessary delays.</p> <p>4.1.4 Please note that if one or more of the water uses for this project requires a water use licence authorisation then by default all other water uses for the project, even those that are within ambit of a General Authorisation, must be all applied for in a single Integrated Water Use License (IWUL) application.</p> <p>4.2 This Department demands to know the source of water for this intended development. The Applicant must clearly indicate where and how the water required for construction will be sourced and brought to site.</p> <p>4.2.1 A copy of the Service Level Agreement (SLA) and / or proof of communication between the Applicant and the Water Services Provider which indicates that</p>	<p>Mr N Leburu/ Ms TF Dlamini Kwazulu- Natal - Department of Water & Sanitation</p>	<p>11 December 2017</p>	<p>1.1 No activities will take place that trigger a water use as defined in NWA.</p> <p>1.2 See above response</p> <p>1.3 No activities will take place that trigger a water use as defined in NWA.</p> <p>1.4 Noted</p> <p>2 No water is required for the operational phase of the development. Water required during the construction phase will be delivered via tanker. Cement is brought to site via a ready mix truck and contractors normally have a small water tank on site that can be used for the small quantities of water that may be required.</p> <p>3 The EMP has been amended to indicate that:</p> <p>3.1 A local contractor will be appointed to provide and maintain the chemical toilets required during the construction phase. The contents of the toilets are to be disposed of at the nearest sewerage treatment plant and a contract is to be entered into with the contractor to this extent.</p> <p>3.2 No surface water bodies are in close proximity to the site and no water pollution from the chemical toilets are expected.</p> <p>3.3 The toilets are to be situated adjacent to the layout footprint.</p> <p>4 Waste is to be stored in a skip and will be collected by a local contractor.</p> <p>4.1 Waste is to be disposed of at a licensed facility and way bills are to be presented by the contractor of proof of disposal.</p> <p>4.2 The site manager is responsible for waste and will oversee the contractor.</p> <p>4.3 Once the contractor is appointed this information can be provided.</p> <p>5 The area that is disturbed is 100m² and the site falls in the station site. No impact on stormwater is expected as the station stormwater system is to be utilized.</p> <p>6 The site is to be rehabilitated and grass is to be planted in order to ensure soil erosion does not take place. Inspections are required after the rainy season and where needed areas are to be rehabilitated.</p>

<p>there would be enough capacity to cater for the construction needs of the project must be included in the Report.</p> <p>4.2.2 Should the Applicant require to abstract water from a water resource for construction, then this will constitute a water use in terms of Section 21(a) of the NWA and the Applicant will require prior authorisation from this Department before commencement of any abstraction.</p> <p>4.2.3 Further to item 2.2 above the Applicant must indicate the proposed source to be used as well as details of the sustainability of that source in relation to the proposed abstraction rates and volumes.</p> <p>4.3 Page 11 of the EMPr states, "There will be ablution facilities provide on the construction site for use by the construction personnel". It is required that these toilets must be situated out of the 1:00 year floodline of a watercourse or outside 100 metres from riparian zone, whichever is reatest distance.</p> <p>4.3.1 The report must clearly indicate who will be responsible for the management of the chemical and where contents of these toilets will be emptied and safely disposed of.</p> <p>4.3.2 The Applicant must indicate how the pollution of water resources from the use of these facilities will be prevented and/ or mitigated. There must be no unacceptable health hazards or impacts arising from the disposal of sewage and wastewater during and post construction.</p> <p>4.3.3 The Applicant must indicate using a construction site layout maps where the chemical toilets will be positioned during the construction phase of the project in order to ensure that they do must not cause any pollution to water resources as well as pose a health hazard.</p> <p>4.4 Page 11 of the EMPr states "No waste will be illegally dumped on site". The Applicant must elaborate on the following with respect to management of waste generated during the project:</p> <p>4.4.1 Where will the waste generated be sorted prior to collection for disposal and how will these areas be demarcated in order that they are clearly identified to ensure proper separation of waste and access control.</p>			
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<p>4.4.2 The responsible personnel for the collection of the different waste streams generated from the project and where the different waste streams will be disposed of.</p> <p>4.4.3 Should the Applicant wish to make use of private contractor instead of eThekweni Municipal Services to dispose the waste generated from the project, the following would apply:</p> <ul style="list-style-type: none"> • The details of the contractor must be made available to this Department. • Safe disposal certificates from a permitted waste disposal site must be kept at hand and must be furnished to this Department when request. <p>4.5 It is vitally important that stormwater is managed along the construction route both during and after construction. The Applicant must develop a stormwater management plan.</p> <p>4.5.1 Where applicable, wetlands must be included as part of the detailed stormwater management plan should a certain percentage of stormwater from the site be allowed to drain towards the wetlands. It is important that any stormwater discharging to the wetland is dissipated prior to entering the permanent, seasonal or temporary zone of the wetland so that it does not cause gully erosion or negatively impact on the hydrological functioning of the wetland.</p> <p>4.5.2 The Applicant must also demonstrate in the plan how the following will be achieved:</p> <ul style="list-style-type: none"> • The separation of stormwater drainage network system away from the waste water (water containing waste) system. • How the construction route will be contoured to ensure free flow of runoff and to prevent the ponding of water. • How drainage will be controlled to ensure that runoff from the construction route will not culminate in off-side pollution or result in damage to properties downstream of any stormwater discharge. <p>4.6 The Applicant must also elaborate on measures to:</p> <ul style="list-style-type: none"> • Prevent or minimise soil erosion on site i.e. 			
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<p>pre-, during- and post – construction activities.</p> <ul style="list-style-type: none">• What and how erosion control measures will be implemented in areas sensitive to erosion.			
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Appendix 6

Copy of the register of I&APs

WARNER BEACH
LIST OF REGISTERED I & AP'S
MARCH 2018

Contact Person	Organisation	Tel	Fax	E-mail	Address
D. Van Rensburg	eThekweni Municipality	-	-	Diane.VanRensburg@durban.gov.za	-
M. Mvune	-	031 916 1925	031 916 1925	advmvune@telkomsa.net	-
Thembekile Dlamini	Water Quality Management Department of Water and Sanitation – (KZN)	031 336 2741		DlaminiT3@dws.gov.za	14 th Floor, Southern Life Building, 88 Joe Slovo Str (Cnr Joe Slovo & Monty Naicker), Durban
Cllr Andre Beetge	Ward Councillor			andreb@skytec.co.za	

Appendix 7

Civil Aviation Authority

CAA WAS REQUESTED FROM THE APPLICANT, APPLICANT HAS APPLIED FOR IT FROM COUNCIL AND WILL PROVIDE IT TO US UPON RECEIPT.

Appendix 8

Other

NOT APPLICABLE

Appendix E

EMPr



Lokisa Environmental Consulting CC
P.O. Box 219 Phone (012) 346 7655
Groenkloof Fax (012) 346 6074
0027 Cell 082 493 9616

FINAL ENVIRONMENTAL MANAGEMENT PROGRAMME

FOR

**PROPOSED TELECOMMUNICATION MAST – KZN30 WARNER BEACH
(ERF 2961 KINGSBURGH)
REF NR: LOK2017/014**

PREPARED FOR:

CommCo Holdings (Pty) Ltd
P.O. Box 2506
Saxonwold
2132

Tel: 010 595 8569

PREPARED BY:

Lokisa Environmental Consulting CC
P.O. Box 219
Groenkloof,
0027

Tel: 012 346 7655
Fax: 012 346 6074

Date: March 2018
Eng: E Minnaar

ENVIRONMENTAL MANAGEMENT PLAN: INFORMATION SHEET

Contact Person:

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B(TRP) (Pretoria), Environmental Management (NWU), Waste Management (NWU), Environmental Law (NWU), Implementing Environmental Management Systems (SABS/ISO 14001) (NWU)

Author Details:

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Elaine Minnaar
Lokisa Environmental Consulting CC
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Cell: 082 493 9616

1.2 Qualifications

B(TRP) (Pretoria),
Environmental Management (NWU),
Waste Management (NWU),
Environmental Law (NWU),
Implementing Environmental Management Systems (SABS/ISO 14001) (NWU)

1.3 Professional Affiliation

International Association for Impact Assessment (IAIA)

1.4 Verification Statement

I, Elaine Minnaar (6904260204083) declare under oath that of –
The correctness of the information provided in the reports;
The inclusion of comments and inputs from stakeholders and I&AP's;
The inclusion of inputs and recommendations from the specialist reports where relevant;
Any information provided by the EAP to interested and affected parties and any responses by the EAP to comments or inputs by interested and affected parties.



Signature

March 2018
Date

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Abbreviations and Definitions

Construction footprint	The area of the Cellular telecommunications base station site including a 2m radius around the site
Compliance	Conforming to the environmental control measures set out in the EMPr
Contractor	Contractor refers to the main contractor appointed by the client to complete the construction
EC	Environmental Consultant. Individuals or firms whose role it is to act as independent, objective environmental information providers to stakeholders in order to inform the decision making process.
EIA	Environmental Impact Assessment
EMPR	Environmental Management Programme
Environment	The surroundings within which people exist. The environment is made up of: the soil, water and atmosphere; fauna and flora; any part, combination or interrelationships among these; and all the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being.
Environmental Impact	Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organisation's activities, products or services.
Interested Party	Individuals or groups concerned with or affected by an activity and its consequences. These include the authorities, local communities, investors, work force, customers and consumers, environmental interested groups and the general public
EA	Environmental Authorisation

1. Background and Project Description

The project entails the construction of a 30m Lattice Mast within the footprint size of a 12m x 6m area and a support container on Erf 2961 Kingsburgh within the jurisdiction of eThekweni Municipality. The site is to accommodate three service providers.

The proposed site is located at the Warner Beach Train Station on Erf 2961 Kingsburgh, next to Kingsway Street. The train station is situated east of Kingsburgh and Warner Beach, approximately 600m from the N2 Highway and directly west of the coastal line of the Indian Ocean.

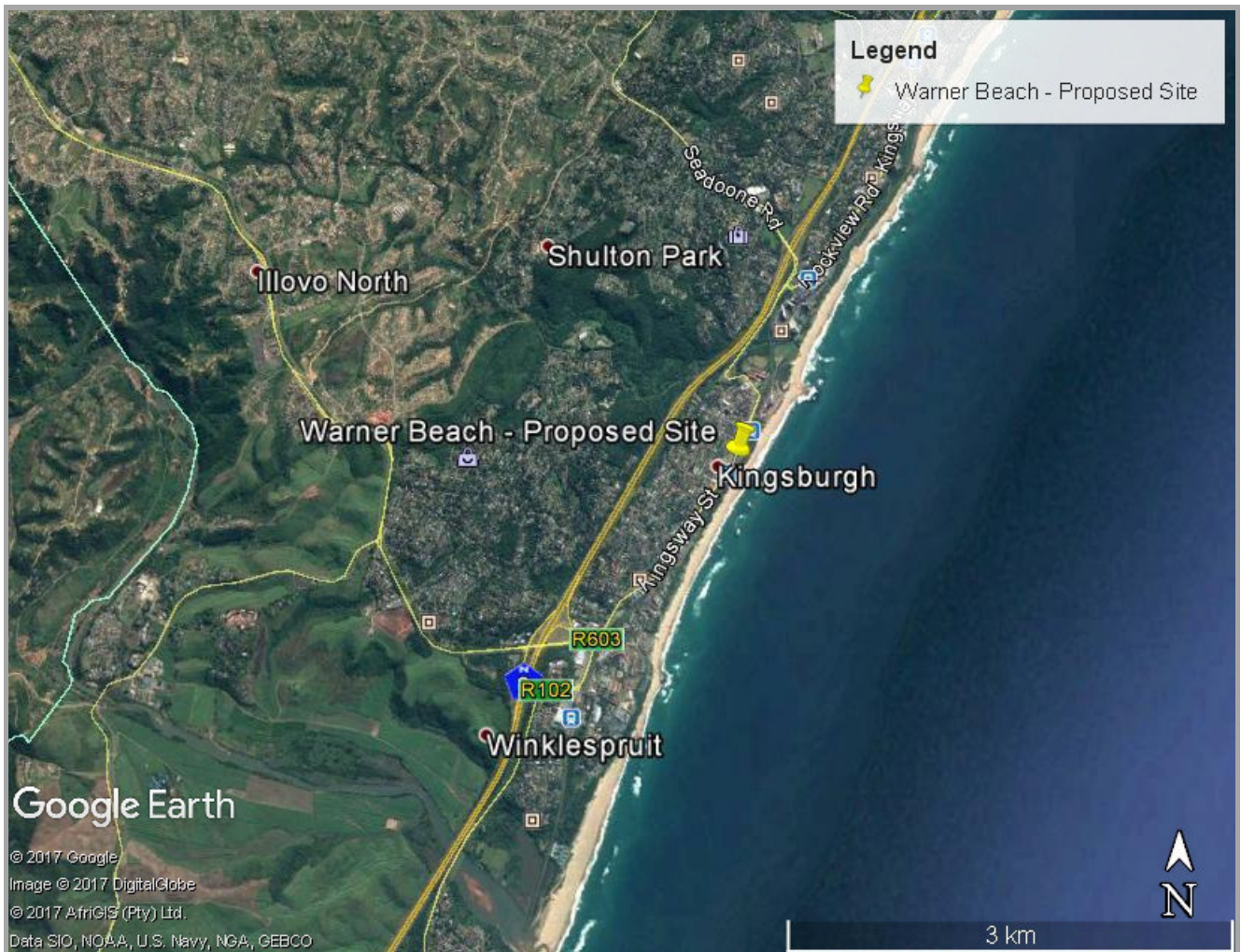


Figure 1.1: Site Locality

2. Purpose

In terms of the South African Constitution (Act No. 108 of 1996) people have the right to an environment that is not harmful to their health or well being and to have the environment protected for the benefit of present and future generations. This goal is to be pursued through reasonable legislation as well as other means that prevent pollution and ecological degradation, promote conservation and the sustainable use of natural resources while promoting justifiable economic and social development.

The purpose of the Environmental Management Programme (EMPr) is to act as an instrument to be used by CommCo Holdings (Pty) Ltd to manage and mitigate the environmental impacts associated with the construction, rehabilitation and decommissioning activities of the proposed 30m Lattice Mast at the Warner Beach Station.

The EMPr is to be implemented in a co-operative spirit with all parties (i.e. the project proponent, contractor, as well as interested and affected parties) involved and affected by the construction of the base station.

The Mobile Telecommunications industry is not a high environmental impact industry, if equated with industries such as mining. It is, however still necessary and important to Commco Holdings (Pty) Ltd that the impacts of the cellular telecommunications base station be mitigated.

3. Scope of Environmental Management Programme

The objective of this EMPr is to mitigate the effect of the installation of the telecommunications base station on the surrounding environment by aiming to reduce nuisance factors and the danger of adverse impacts on the environment during construction and to provide a plan for effectively managing the base station thereafter and to:

- Ensure that all pertinent environmental issues and the concerns of KZN EDTEA are addressed;
- Determine environmental conditions and sensitivities of the site and areas outside that may be impacted on by the project;
- Ensure acceptability of design and construction practices with respect to identified impacts and prescribed mitigation measures;
- Provide strategies for obtaining and/or complying with all environmental approvals, permits and agreements, and to provide a monitoring program;
- Integrate environmental strategies with all design and construction work; and
- Provide input and strategies for environmental quality control and risk management during all phases of the project.

This plan aims to ensure that:

- Environmental management considerations are understood and implemented from the outset;
- Precautions against damage are taken; and the
- Impacts of the development on the environment are minimised.

4. Environmental Control Measures

This EMP outlines measures to be implemented to minimise any potential environmental degradation associated with the construction of the development. It will serve as a guide for the Contractor and the construction workforce about their roles and responsibilities for environmental management on the construction site and provide a framework for environmental monitoring throughout the construction period.

Measures to control potential environmental impacts during the construction phase are specified. Except where otherwise stated, all these control measures apply throughout the construction period and, as part of the project contract, the Contractor shall adhere to these measures at all times.

5. Contractual Considerations & Responsibilities

The Contractor should be handed a copy of all relevant documentation regarding the project and should before any work is conducted ensure that the Construction Supervisor is familiar with the environmental issues on site.

A commitment from the Contractor is required on the following issues:

- Consideration for the inhabitants in the area;
- Professional behaviour on and off site;
- Ensuring the quality of work done, whether technical or environmental is of a high standard;
- Immediately resolving problems and claims arising from damage to ensure a smooth flow of operations;
- Using this Environmental Management Programme for the benefit of all involved;
- Preserving the natural environment by limiting destructive actions on site; &
- Not littering.

The Contractor is responsible for, but not limited to, the following:

- Overall construction management of all tasks applicable to the civil site build (Mast foundation, mast erection, container slabs, fencing, electrical, site works, etc.);
- All work involved in preparing the site and making it suitable for the mast erection;

- All work involved in preparing the site and making it suitable for equipment installation;
- Mast foundation construction as per mast engineer's design applicable to the site-specific soil conditions. Soil tests to be done by the contractor to verify design parameters;
- Supply of fence;
- Installation of a fence and gate;
- The installation of required antenna poles/clamps (MW and GSM);
- The installation of the required cable support system (cable trays);
- Installation of a key deposit box, if necessary;
- Installation of a new lightning protection and earthing system;
- Electrical work;
- The painting of the tower, fence and equipment;
- Obstruction lighting system for the tower;
- Producing site-specific as build documentation as specified; &
- Installing all warning labels and signs.

6. Pre-Construction and Construction Phase

For the purpose of this EMPr the construction phase is examined in terms of the following categories.

1. Setting out and site orientation;
2. Site clearance;
3. Laying of the concrete casts;
4. Preparing the foundation for the fence and construction thereof;
5. Placing the Mast and Container; and
6. Connecting all relevant components e.g. electrical, antennas.

6.1 Setting out & site orientation

Site setting out lines and construction datum and levels, are to be determined by the Contractor in accordance with the CommCo Holdings (Pty) Ltd representative as well as the general guidelines of these specifications and the drawings, and shall also satisfy the specific Contract Specification requirements.

Setting out markers for ground level fenced sites where provided by the Employer on the site of the works indicate the setting out line (fence line) parallel to and nearest to the equipment shelter and tower foundation.

6.2 Site Clearance

Site clearing starts with the scraping of a 12m by 6m area. This phase also includes the excavation for the manholes and the base for the mast.

6.2.1 Environmental Impact

- Infestation by alien species
- Loss of topsoil
- Dust
- Noise

6.2.2 Mitigatory Measures

- No construction related activities, such as the site camp, storage of materials, temporary roads or ablution facilities may be located outside the site. It is suggested that these facilities be retained within the Warner Beach Station;
- Fence the site and confine all construction activities to the site. The fence structure should be permeable to allow free dispersal of smaller fauna taxa;
- Vehicle movement must be confined to an access road to and from the site;
- No clearing of vegetation may take place outside the site;
- Suitable indigenous vegetation (flora) must be selected and used for rehabilitation;
- Monitor the site for the establishment of invasive plant species;
- Compile an Alien and Invasive Species Management Plan for the site;
- All site clearing and excavations are to be done as far as possible during standard working hours in order to limit the noise nuisance to the surrounding communities;
- During excavation dust generation is to be kept to a minimum by the appropriate wetting of the surface. This includes the access road and surrounding disturbed areas. A tanker of water may need to be brought on site if there is no water point available nearby;
- The topsoil is to be kept separate in a demarcated area within the immediate vicinity for rehabilitation;
- All construction waste is to be stored in a designated area. It is recommended that a skip be used on site to store all waste. Waste rock generated during construction is to be sent to a permitted landfill site;
- Appropriate fire-breaks must be planned and used on site;

6.3 Laying of the concrete casts

The casts for the container, mast and manholes are filled with concrete and reinforced with steel rods. All concrete mixing is done offsite and brought to the site via a concrete mixing truck. However, for snag repairs, concrete may be mixed on site.

6.3.1 Environmental Impact

- Concrete runoff
- Pollution of water

6.3.2 Mitigatory Measures

- For minimum impact on the environment with regards to laying of concrete, ready mix concrete will be delivered by truck during standard working hours. In the event that concrete is mixed on site it will be done in a controlled manner. Any area disturbed is to be rehabilitated. It is the responsibility of the Project Manager to ensure that the concrete mixing area is rehabilitated.
- When casting concrete foundations, care must be taken to avoid spilling concrete on the site. Any material spilled must be collected and disposed of with the other waste material from the site.
- All construction waste is to be stored in a designated area. It is recommended that a skip be used on site to store all waste.

6.4 Preparing the foundation for the fence and it's construction

The foundation is dug around the 12m x 6m excavation. Once the container and mast have been laid, the fence is placed around the site.

6.4.1 Environmental Impact

- Displacement of material
- Noise

6.4.2 Mitigatory Measures

- The Contractor shall ensure that all work that could create noise is done during standard working hours (8:00am to 17:00pm).
- The rock and rubble removed during this phase of construction is to be taken off site and disposed of at a registered landfill site. A permit shall be obtained from the landfill site confirming this disposal.
- All concrete mixed on site will be done in a designated area. Concrete bags are to be stored in a dry area. Runoff from the designated area is to be monitored for any concrete effluent. Any area disturbed is to be rehabilitated.

6.5 Placing the mast and container

The container and mast are brought to the site via heavy duty vehicles. The mast sections are assembled on site and painted. The placing of the mast and container is done with a mechanical lifting machine. The mast and container are bolted to their respective foundations.

6.5.1 Environmental Impact

- Heavy duty vehicles on site
- Painting

6.5.2 Mitigatory Measures

- Vehicles are not permitted to enter any area designated as sensitive
- All painting activities are to be done within a designated area. The Contractor is to ensure that all damage to the grass and surrounding vegetation is rehabilitated.
- Placing of the container to be done with a mechanical lifting machine during standard working hours to minimize any possible disturbance to the surrounding community. There must be adequate access to the site for turning of machines etc to prevent any damage to any natural surrounding vegetation. Machinery must be in good working order so as to prevent oil leaks. Any contaminated areas are to be rehabilitated;
- Vehicle movement must be confined to an access road to and from the site.

6.6 Connecting all relevant components

The antennas and electrical wires are connected to the radio equipment and the site is now ready to be commissioned. This is the end of the construction phase. A temporary power supply may be used on site to allow the base station to become operational if the installation of a permanent electricity supply is delayed and the operation of the base station is urgently required.

6.6.1 Environmental Impact

- Waste material
- Generator noise
- Oil spills

6.6.2 Mitigatory Measures

- The waste generated shall be disposed of at a registered landfill site and a permit obtained confirming this.
- The Contractor must ensure that all diesel emissions and noise levels of generators used on site are kept within national standards.
- In the event that a temporary power supply is used on site, the generator used must be in good working condition. If any diesel spillage takes place it is the Contractor's responsibility to ensure that the area is cleaned up immediately in an environmentally acceptable manner.

General Conditions regarding the construction phase

- The established road on the property must be used to access the site.
- Construction activities should be planned to **prevent erosion** and improve the landscape.
- In respect of the **construction camp**, the Contractor shall define the area of the construction camp and place it so as to have a minimal impact on the environment. The construction camp must be located in such a manner as to limit the movement of site personnel.
- Trampling and disturbance associated with construction should be limited to within the footprint of the construction site.
- Construction personnel must stay within the demarcated construction site boundaries at all times.
- The Contractor and his sub-contractors and/ or suppliers with all workmen shall observe all **security arrangements** normally in force at each site, together with any other arrangements which may be specified necessary for the duration of the Contract.
- Ladders, keys or other equipment which could be used to gain **unauthorised access** to the site or installations on the site shall be removed, or secured in such a way that they cannot be used by unauthorised personnel, whenever a site is left unattended.
- There will be ablution facilities provided on the construction site for use by the construction personnel.
- No littering is allowed on site.
- Washing of containers and equipment must only take place within appropriate designated areas of the construction site.
- A collection tray must be placed under machinery or equipment that has the potential to dispense hazardous substances. Hazardous substances must not be permitted to soak into the soil.
- All waste is to be disposed of correctly in the designated waste containers provided at the construction site.
- No waste will be illegally dumped on site.
- No waste will be buried or burnt on site.
- No waste will be stored outside of the site boundaries.
- No fires are to be made on site.

7. Operational Phase Management

The following features of the development must be managed during the Operational Phase:

7.1 Access and access road to the Cellular telecommunications base station

Access to the site and to any other properties served by any access road used by the Contractor is to be maintained at all times such that it does not give rise to dust.

7.2 Alien plants and weed encroachment

The removal of all invasive species and the emergence of invasive species must be continually monitored. Invasive species must be removed by hand or poisoned. The effectiveness of re-vegetation and erosion control must be monitored periodically after construction.

7.3 Waste and Litter

Checking the road and site for any litter and waste and removing any waste to a 10m radius around the site. Checking that there is no leakage from the batteries running outside the radio container. Before leaving the site, checking where the vehicle and/ or generator were parked for signs of oil. Checking that all parts replaced during maintenance, as well as any tools and equipment, are placed into the vehicle before departing.

7.4 Fencing; Mast and Equipment Container

CommCo Holdings (Pty) Ltd maintenance contractors visit each Cellular telecommunications base station regularly (at least every six to twelve weeks), for repairs and maintenance.

7.5 Stormwater Management

An appropriate stormwater management plan must be in place.

The stormwater must not enter the wetland area directly. The water flow must be attenuated and dispersed before entering any watercourses.

Immediate remedial action should be taken when erosion is encountered.

8. Decommissioning Management

On termination of use of a Cellular telecommunications base station, all equipment is to be dismantled and removed and the site restored to its original state.

In the case of a full decommissioning, the decommissioning and rehabilitation processes can be summarised briefly as follows:

1. The removal of the Cellular telecommunications base station equipment and associated infrastructure, i.e. the mast, equipment container, the fence and foundations; the power box and associated power cables, the concrete foundations and manholes.
2. The re-contouring of the site to its original state. If that is not possible the site must be contoured to blend in with the immediate surroundings.
3. The re-contoured area is to be re-vegetated with indigenous vegetation.
4. If the access road is not going to be utilized after the Cellular telecommunications base station has been removed, the road must be rehabilitated to its original state. Should the access road continue to be used the Regional Property Manager will be responsible for assigning the responsibility of regular maintenance for the access road to the person/ people who will still be using the road.

9. Conclusion

The function of this EMPr is to provide the Contractor with effective measures for minimizing the negative environmental impacts of the Cellular telecommunications base station during its lifetime, i.e. at the pre-construction stage, during construction, throughout the operational phase and at the time of decommissioning. Throughout the process, this guide will be referred to.

10. Amendments to the EMPr

This EMPr will be submitted to the Environmental Authority for approval prior to implementation. Any issues that may arise during the construction or operational phase which are not covered in this EMPr shall be addressed as addendums to the EMPr and submitted for approval prior to implementation.

Appendix F

Other



SITE NAME:
WARNER BEACH

BASE STATION NUMBER:
KZN 30

REV	DATE	DESCRIPTION
00	2017/06/29	LEASE DRAWINGS

DATE DRAWN: 2017/06/29

DRAWN: F. BREYTENBACH

STRICTLY COMPANY CONFIDENTIAL

COORDINATES:
30°04'59.82"S
30°52'03.79"E

AMSL: 17M

PROJECT:

VISUAL IMPACT ASSESSMENT FOR CELLULAR BASE STATION WITH OPERATORS CONTAINERS WITH 30M LATTICE ENCLOSED WITH PALISADE FENCE

VISUAL IMPACT ASSESSMENT DONE BY:

SAAR FERREIRA
Consulting Engineers

P.O. BOX 260, GROENKLOOF, 0027
TEL: (012) 346 5086 FAX: 086 503 7931
e-mail: techdraw@saarferreira.co.za

ENVIRONMENTAL CONSULTANT



P.O. BOX 219 GROENKLOOF
0027
TEL: (012) 346 7655 / 8324
FAX: (012) 346 6074
EMAIL: ELAINE@LOKISA.CO.ZA

VISUAL IMPACT ASSESSMENT

AERIAL VIEWPOINTS

SCALE:	DRAWING No: KZN30	PAGE No: A3
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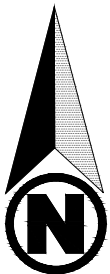


VIEWPOINT 3

PROPOSED SITE

VIEWPOINT 1

VIEWPOINT 2





VIEW WITHOUT THE TOWER



VIEW WITH 30M LATTICE TOWER



SITE NAME:

WARNER BEACH

BASE STATION NUMBER:

KZN 30

REV	DATE	DESCRIPTION
00	2017/06/29	LEASE DRAWINGS

DATE DRAWN: 2017/06/29

DRAWN: F. BREYTENBACH

STRICTLY COMPANY CONFIDENTIAL

COORDINATES:
30°04'59.82"S
30°52'03.79"E

AMSL: 17M

PROJECT:

VISUAL IMPACT ASSESSMENT FOR CELLULAR BASE STATION
WITH OPERATORS CONTAINERS WITH 30M LATTICE
ENCLOSED WITH PALISADE FENCE

VISUAL IMPACT ASSESSMENT DONE BY:



ENVIRONMENTAL CONSULTANT



P.O. BOX 219 GROENKLOOF
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TEL: (012) 346 7655 / 8324
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VISUAL IMPACT ASSESSMENT

VIEWPOINT I

SCALE:	DRAWING No: KZN30	PAGE No: A3
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VIEW WITHOUT THE TOWER



VIEW WITH 30M LATTICE TOWER



SITE NAME:
WARNER BEACH

BASE STATION NUMBER:
KZN 30

REV	DATE	DESCRIPTION
00	2017/06/29	LEASE DRAWINGS

DATE DRAWN: 2017/06/29

DRAWN: F. BREYTENBACH

STRICTLY COMPANY CONFIDENTIAL

COORDINATES:
30°04'59.82"S
30°52'03.79"E

AMSL: 17M

PROJECT:
VISUAL IMPACT ASSESSMENT FOR CELLULAR BASE STATION
WITH OPERATORS CONTAINERS WITH 30M LATTICE
ENCLOSED WITH PALISADE FENCE

VISUAL IMPACT ASSESSMENT DONE BY:

SAAR FERREIRA
Consulting Engineers

P.O. BOX 260, GROENKLOOF, 0027
TEL: (012) 346 5086 FAX: 086 503 7931
e-mail: techdraw@saarferreira.co.za

ENVIRONMENTAL CONSULTANT

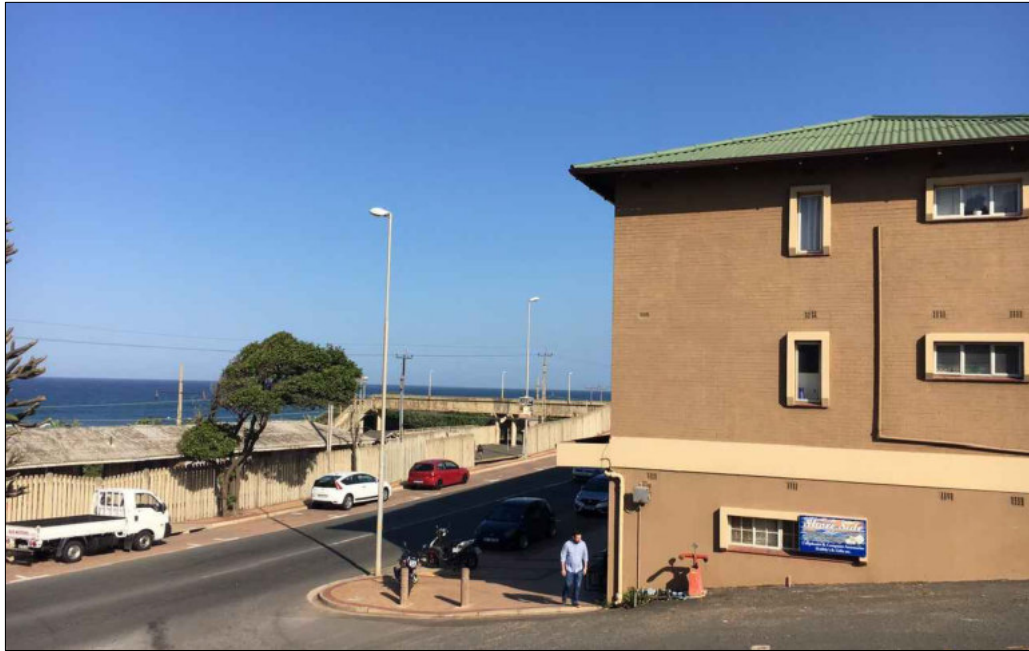


P.O. BOX 219 GROENKLOOF
0027
TEL: (012) 346 7655 / 8324
FAX: (012) 346 6074
EMAIL: ELAINE@LOKISA.CO.ZA

VISUAL IMPACT ASSESSMENT

VIEWPOINT 2

SCALE:	DRAWING No: KZN30	PAGE No: A3
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VIEW WITHOUT THE TOWER



VIEW WITH 30M LATTICE TOWER



SITE NAME:
WARNER BEACH

BASE STATION NUMBER:
KZN 30

REV	DATE	DESCRIPTION
00	2017/06/29	LEASE DRAWINGS

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VISUAL IMPACT ASSESSMENT

VIEWPOINT 3

SCALE:	DRAWING No: KZN30	PAGE No: A3
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Appendix G

Curriculum Vitae

Curriculum Vitae

Of

Elaine Minnaar

Family name: Holtzhausen

First names: Elaine

Profession: Environmental Consultant

Date of Birth 26 April 1969

Nationality: South African

Civil status: Married

Key Qualifications:

Institution (Date from-Date to)	Degree(s) or Diploma(s) obtained
University of Pretoria January 1989 – November 1992	4 years B(TRP)
University of Potchefstroom 1 week - 1998	Diploma in Environmental Management
University of Potchefstroom 1 week - 2001	Diploma in Waste Management
University of Potchefstroom 1 week - 2002	Diploma in Environmental Law
University of Potchefstroom 1 week - 2003	Diploma in Environmental Management Systems
University of Potchefstroom 1 week - 2004	Diploma in Environmental Auditing

Language skills:

Afrikaans: Native

English: Speak, write and read (excellent)

Membership of professional bodies: International Association of Impact Assessment

Other skills:

Strategic Environmental Assessment, Urban Development Control, Formulation of LDO's and IDP's, Project Management, Environmental Management, Community Facilitation, Environmental law, Environmental Management Policies and Plans, Environmental Monitoring and Auditing, Integrated Environmental Management, Environmental Impact Assessments, Sensitivity Analysis, Planning and Mapping, Impact Evaluation and Significance Rating, Social Impact Studies, Environmental Mitigation and Control.

Present position: Senior Environmentalist and Managing Member of Lokisa

Years within the firm: 13

Specific experience in the region:

Country	Date from – Date to
South Africa: Strategic Environmental Assessment Formulation of LDO's and IDP's Project Management Environmental Management Community Facilitation Environmental law Environmental Management Policies and Plans Environmental Monitoring and Auditing Integrated Environmental Management Environmental Impact Assessments Sensitivity Analysis, Planning and Mapping Impact Evaluation and Significance Rating Structure Planning Social Impact Studies Environmental Mitigation and Control	1998 – to date
St Maartin (Netherlands Antilles): Environmental Impact Assessment, Rehabilitation and Environmental Management - Little Key Island	2004 - 2005
Tatu Estate (Kenya) Sensitivity analysis SEA	2009 -

Professional experience:

Date from – Date to	Company	Position	Description
2001- current	Lokisa Environmental Consulting/TGM Environmental Services	Managing Director	<ul style="list-style-type: none"> • EIA/ Scoping applications • Basic Assessments • Water use licence applications • Facilitation of Projects; • Environmental Impact Assessments on: • Low Cost Housing Projects; • Environmental Management Plans
1998- 2001	Globecon Environmental Management Services	Director	<ul style="list-style-type: none"> • Facilitation of Projects; • Environmental Impact

			Assessments on: Low Cost Housing Projects; Telecommunication structures <ul style="list-style-type: none"> • Environmental Management Plan for the third cellular licence operator.
1995 -1997	Property Planning Practice	Town Planner	Town Planning applications in terms of Ordinance
1993 - 1995	Paradise Marine, St Maarten	Crew aboard yacht	First mate duties
1990-1992	First National Bank	Data capturer	Data Capturer

Publications: The Porcus, April 2006

Curriculum Vitae
Of
Mmatau Faith Makena

Family name: Makena

First names: Mmatau Faith

Profession: Environmental Consultant

Date of Birth 14 May 1992

Nationality: South African

Civil status: Single

Key Qualifications:

Institution (Date from-Date to)	Degree(s) or Diploma(s) obtained
Tshwane University of Technology 2010 - 2012	National Diploma Environmental Sciences

Language skills:

Sepedi: Native

English Speak, write and read (excellent)

IsiNdebele Speak (excellent)

Membership of professional bodies: None

Present position: Environmental Consultant

Years within the firm: 2014 - current

Specific experience in the region:

Country	Date from – Date to
South Africa: Environmental Management Environmental Impact Assessments Environmental Management Policies and Plans Environmental Monitoring and Auditing Environmental Mitigation and Control Community Facilitation	2012-current

Professional experience:

Date from – Date to	Location	Company	Position	Description
2012 - 2012	Pretoria	Lokisa Environmental Consulting CC	Student Environmental Consultant	<ul style="list-style-type: none">• Administrative duties.• Public Participation.• Environmental Monitoring and Auditing.• Amendments of Environmental Authorisations.
2014- current	Pretoria	Lokisa Environmental Consulting CC/ TGM Environmental Services	Environmental Consultant	<ul style="list-style-type: none">• Environmental Impact Assessments on: Low Cost Housing Projects;• Environmental Management Plans/Programmes• Environmental Monitoring and Auditing• Environmental Mitigation and Control• Community Facilitation.