

# Generic EMPr: Appendix 2 - Power Lines

## Part B, Section 2

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### PART B: SECTION 2

#### 7. SITE SPECIFIC INFORMATION AND DECLARATION

##### 7.1 Sub-section 1: Contact details and description of the project

###### 7.1.1 Details of the applicant

<b>Applicant name</b>	Eskom Holdings SOC Limited care of the Eskom Limpopo Operating Unit
<b>Contact person</b>	Ms Tshifhiwa Matamela
<b>Physical address</b>	92 Hans van Rensburg Street, Polokwane, 0700
<b>Postal address</b>	P.O Box 3499, Polokwane, 0700
<b>Email</b>	MatameTE@eskom.co.za
<b>Telephone</b>	015 299 0498 / 079 745 4296

###### 7.1.2 Details and expertise of the EAP

<b>EAP Name</b>	Annelize Erasmus
<b>EAP qualifications</b>	<ul style="list-style-type: none"> <li>• BL (Landscape Architecture) Degree – University of Pretoria, 1988</li> <li>• “Integrated Environmental Management – Theory and Practice”; University of Cape Town, 1992</li> <li>• Assessor of EAP Applications for registration with EAPASA (since 1 February 2020)</li> <li>• Various workshops and webinars in the environmental consultancy field</li> </ul>
<b>Professional affiliation/ registration</b>	<ul style="list-style-type: none"> <li>• EAPASA Registered: Annelize Erasmus (Grobler): 2019/1728</li> <li>• Member of the IAISA since May 2012: 3142</li> </ul>
<b>Physical address</b>	91 Wenning Street, Groenkloof, Pretoria, 0181
<b>Postal address</b>	PO Box 947, Groenkloof, Pretoria, 0027
<b>Email</b>	<a href="mailto:info@landscapedynamics.co.za">info@landscapedynamics.co.za</a> / <a href="mailto:annelize@landscapedynamics.co.za">annelize@landscapedynamics.co.za</a>
<b>Telephone</b>	082 566 4530 / 012 460 6043
<b>Curriculum Vitae</b>	The Landscape Dynamics Company Profile and condensed CV of the EAP are attached hereto

### 7.1.3 Project name

Merensky-Uchoba 132kV Power Line Second Route Deviation, Steelpoort, Limpopo Province.

### 7.1.4 Description of the project

Environmental Authorisation was issued on 10 November 2020 for the Merensky-Uchoba 132kV Powerline Project. This project involved an approximately 18km powerline from the existing Merensky Substation to connect to the Merensky-Jane Furse-Uchoba Powerline T-Off. Eskom now requires deviating a section of the authorised route to accommodate site-specific problems encountered. This deviation is now called the **Merensky-Uchoba 132kV Power Line Second Route Deviation**.

The project components are the following:

- An approximately 10,6km route is applicable
- A 100m corridor width was investigated and assessed. The servitude width required for the purpose of the powerline within this corridor will be 31m.
- The 132kv Overhead Power Line will have a capacity of 132kV and monopole steel pylons will be used.
- Existing access roads to the powerline will be used. A new approximately 6m wide access road will be developed for construction, maintenance and inspection purposes within the servitude area along the powerline, but outside the identified High and Very High Sensitive Areas.

It was requested that the *corridor* be registered in terms of the Standard and not the servitude only. This enables reasonable adjustments within the corridor during the final design phase of this project. *Note that only the required 31m wide servitude will eventually be registered within the route corridor and not the entire corridor.*

### 7.1.5 Project location

The Merensky-Uchoba 132kV Deviation Power Line runs mostly along the R555 and south of the Steelpoort River, close to the town of Steelpoort within the Fetakgomo Tubatse Local Municipality, Limpopo Province.

### Directly Affected Properties and Relevant Landowners

Property Descriptions	Registered Landowners
Portion 3 of the Farm Grootboom 336-KT	Tubatse African Agricultural Merging Farmers Communal Prop Assoc (TAAMF)
Portion 0 (the Remaining Extent) of the Farm Grootboom 336-KT	Parsons Transport Holdings Pty Ltd
Portion 4 of the Farm Grootboom 336-KT	Engen Petroleum Ltd (care of Reinhardt Transport)
Portion 0 (the Remaining Extent) of the Farm of Annex Grootboom 335-KT Portion 1 of the Farm Annex Grootboom 335-KT, Portion 1 of the Farm Spitskop 333-KT Portion 2 of the Farm Spitskop 333-KT Portion 3 of the Farm Spitskop 333-KT Portion 0 (the Remaining Extent) of the Farm Goudmyn 337-KT Portion 6 of the Farm Goudmyn 337-KT	Samancor Chrome Ltd
Portions 10, 11 & 29 of the Farm Spitskop 333-KT	Dithamaga Trust

## SG21 Digit Codes

Major region				Minor region				Farm / Erf number							Portion number					
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	6	0	0	0	0	3
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	6	0	0	0	0	0
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	6	0	0	0	0	4
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	5	0	0	0	0	0
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	5	0	0	0	0	1
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	3	0	0	0	0	1
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	3	0	0	0	0	2
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	3	0	0	0	0	3
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	7	0	0	0	0	0
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	7	0	0	0	0	6
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	3	0	0	0	1	0
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	3	0	0	0	1	1
T	0	K	T	0	0	0	0	0	0	0	0	0	3	3	3	0	0	0	2	9

## Coordinates of the Centre of the 100m wide Power Line Corridor

FID	X	Y	Comment
1	30° 11' 27.78" E	24° 44' 17.47" S	NE point
2	30° 11' 27.75" E	24° 44' 23.74" S	
3	30° 11' 21.22" E	24° 44' 29.02" S	
4	30° 11' 13.33" E	24° 44' 32.77" S	
5	30° 11' 5.43" E	24° 44' 36.51" S	
6	30° 10' 57.54" E	24° 44' 40.26" S	
7	30° 10' 49.65" E	24° 44' 44.01" S	
8	30° 10' 43.43" E	24° 44' 48.53" S	
9	30° 10' 38.85" E	24° 44' 53.93" S	
10	30° 10' 31.40" E	24° 44' 58.24" S	
11	30° 10' 33.20" E	24° 45' 4.19" S	
12	30° 10' 34.30" E	24° 45' 10.75" S	
13	30° 10' 39.96" E	24° 45' 17.03" S	
14	30° 10' 45.61" E	24° 45' 23.30" S	
15	30° 10' 51.26" E	24° 45' 29.58" S	
16	30° 10' 46.10" E	24° 45' 34.49" S	
17	30° 10' 38.80" E	24° 45' 39.13" S	
18	30° 10' 31.50" E	24° 45' 43.78" S	
19	30° 10' 24.09" E	24° 45' 48.26" S	
20	30° 10' 16.41" E	24° 45' 52.37" S	
21	30° 10' 8.74" E	24° 45' 56.48" S	
22	30° 10' 1.52" E	24° 46' 0.96" S	
23	30° 9' 57.83" E	24° 46' 8.36" S	
24	30° 9' 54.15" E	24° 46' 15.75" S	
25	30° 9' 50.46" E	24° 46' 23.15" S	
26	30° 9' 46.78" E	24° 46' 30.54" S	
27	30° 9' 43.10" E	24° 46' 37.94" S	
28	30° 9' 39.41" E	24° 46' 45.33" S	
29	30° 9' 35.73" E	24° 46' 52.73" S	

30	30° 9' 32.04" E	24° 47' 0.12" S	
31	30° 9' 28.36" E	24° 47' 7.52" S	
32	30° 9' 24.67" E	24° 47' 14.91" S	
33	30° 9' 20.99" E	24° 47' 22.31" S	
34	30° 9' 17.30" E	24° 47' 29.70" S	
35	30° 9' 13.62" E	24° 47' 37.10" S	
36	30° 9' 9.56" E	24° 47' 44.17" S	
37	30° 9' 1.75" E	24° 47' 48.08" S	
38	30° 8' 53.95" E	24° 47' 51.98" S	
39	30° 8' 46.14" E	24° 47' 55.89" S	
40	30° 8' 38.34" E	24° 47' 59.79" S	
41	30° 8' 30.63" E	24° 48' 2.01" S	
42	30° 8' 25.35" E	24° 47' 55.67" S	
43	30° 8' 18.56" E	24° 47' 50.42" S	
44	30° 8' 13.56" E	24° 47' 46.54" S	SW point

### 7.1.6 Preliminary technical specifications of the overhead power lines

Length of overhead power line	Approximately 10,6km
Capacity	132kV
Power line corridor width	100m
Tower parameters: ○ Number of towers	To be determined during final design phase (after EA has been issued and Sensitivity Maps approved)
Tower parameters: ○ Types of towers	2WT-1281, 2WT-1283, 2WT-1284, 2WT-1285, 2WT-1286, 2WT-1294, 2WT-1295, 2WT-1298, 2WT-1296, 2WT-1297 – subject to change upon receipt of EA studies and approval. <i>Note: The recommended 132kV Structure from an Avifaunal perspective is the Type DT 7641/7649.</i>
Tower parameters: ○ Tower spacing (mean and maximum)	To be determined during final design phase (after EA has been issued and Sensitivity Maps approved)
Tower parameters: ○ Tower height (lowest, mean and height)	To be determined during final design phase (after EA has been issued and Sensitivity Maps approved)
Tower parameters: ○ Conductor attachment height (mean)	To be determined during final design phase (after EA has been issued and Sensitivity Maps approved)
Tower parameters: ○ Minimum ground clearance	6.3m

## 7.2 Sub-section 2: Development footprint site map

This sub-section must include a map of the site sensitivity overlaid with the preliminary infrastructure layout. The sensitivity map must be prepared from the national web based environmental screening tool, when available for compulsory use at: <https://screening.environment.gov.za/screeningtool>. The sensitivity map shall identify the nature of each sensitive feature e.g. raptor nest, threatened plant species, archaeological site, etc. Sensitivity maps shall identify features both within the planned working area and any known sensitive features in the surrounding landscape. The overhead transmission and distribution profile shall be illustrated at an appropriate resolution to enable fine scale interrogation. It is recommended that <20 km of overhead transmission and distribution length is illustrated per page in A3 landscape format. Where considered appropriate, photographs -of sensitive features in the context of tower positions shall be used.

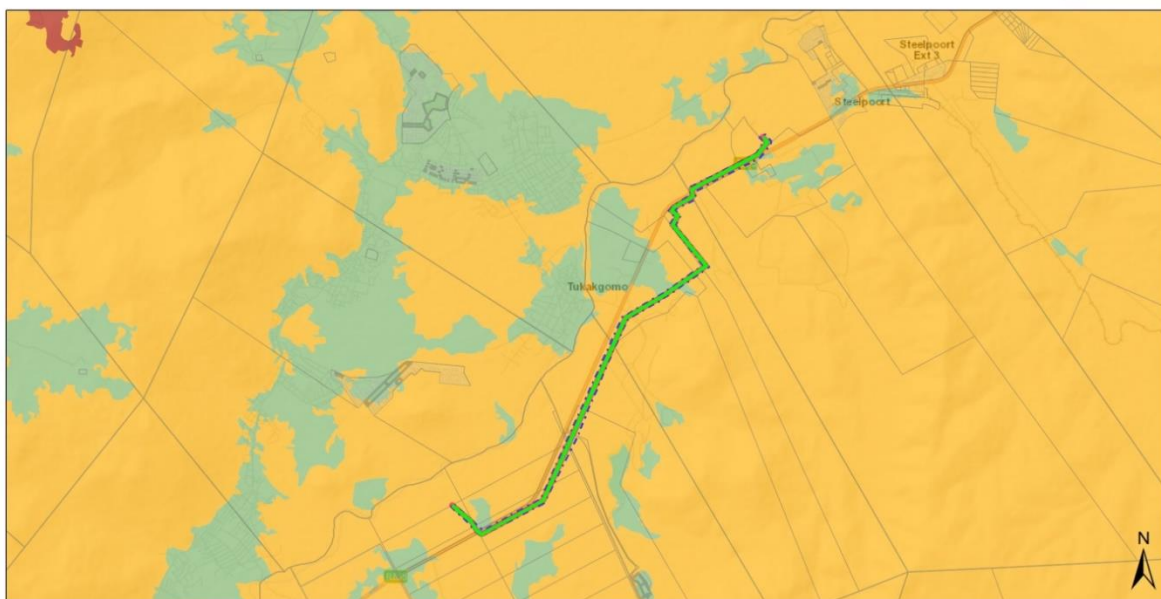
Figure 1: Example of an environmental sensitivity map in the context of a final overhead transmission and distribution profile



The Screening Tool maps below were compiled on 26 April 2023. The site area represents the entire macro area in context with the 100m power line corridor which was assessed.



### Plant Species Sensitivities



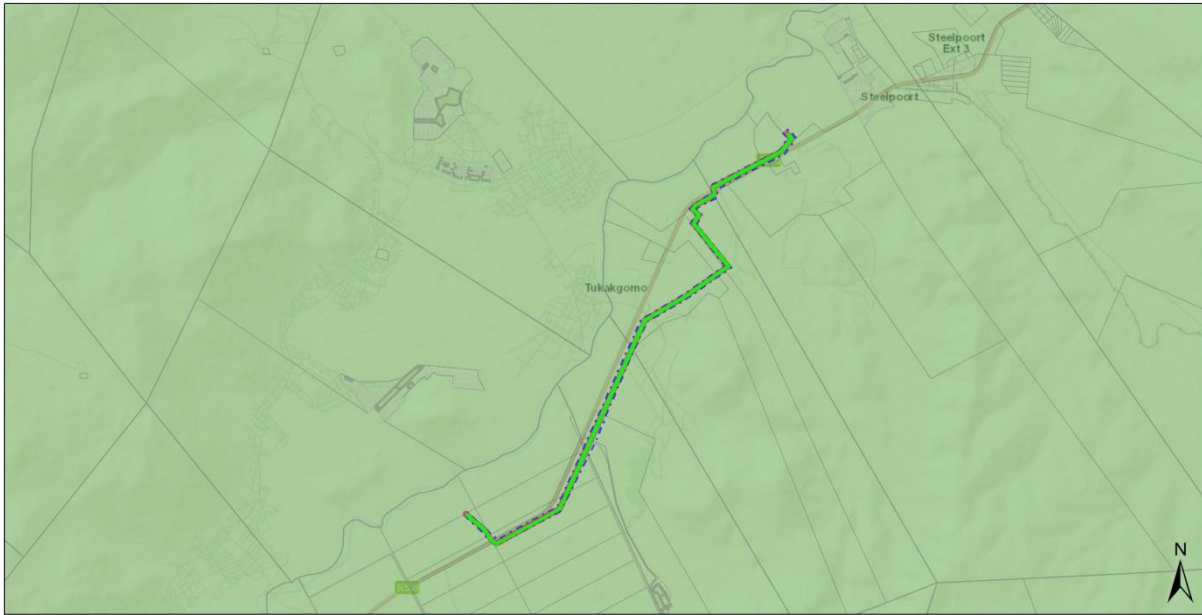
26 April 2023

- |  |  |                            |   |        |
|--|--|----------------------------|---|--------|
| <b>Legend</b>                              | 2nd Deviation FINAL WITH BUFFER - 11 April | National Jurisdiction Area | Agri Holding                              | Medium |
| 2nd Deviation FINAL WITH BUFFER - 11 April | Cadastre                                   | Erven                      | Public Place                              | Low    |
| Site Area                                  | Farm Portion                               | Farm                       | <b>Plant Species Combined Sensitivity</b> |        |
| EIA Application Development Footprint      |  |                            | Very High                                 |        |
| EIA Application Site                       |  |                            | High                                      |        |

0 2.75 5.5  
Sources: Esri, HERE, DeLorme, Mapbox, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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## Defence Sensitivities



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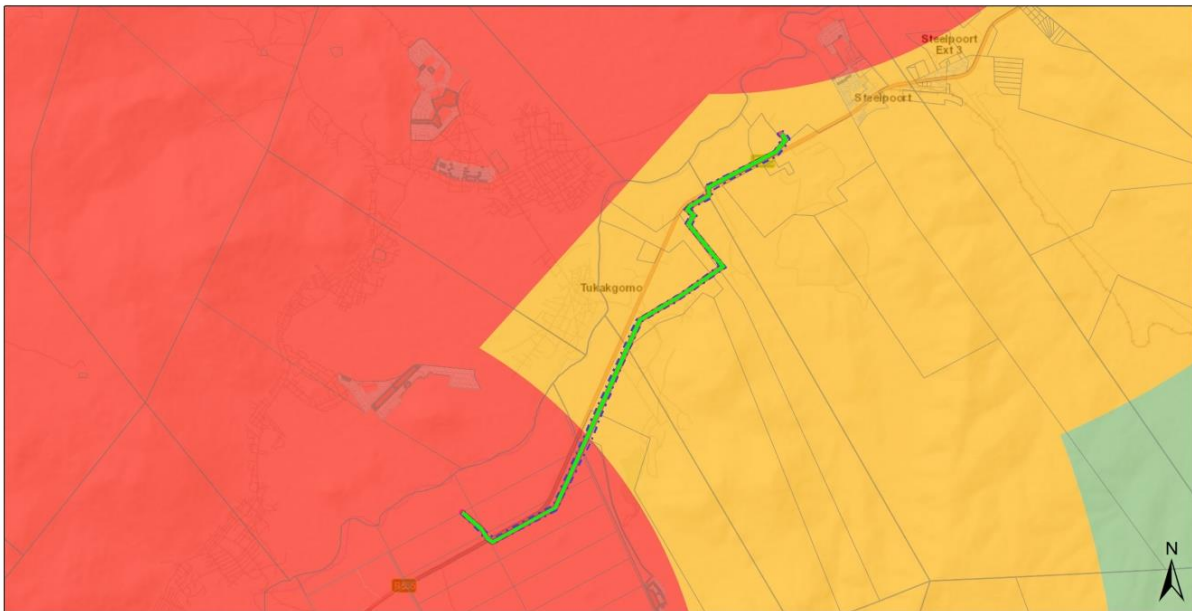
**Legend**

- |  |                            |                                     |        |
|--|----------------------------|-------------------------------------|--------|
| 2nd Deviation FINAL WITH BUFFER - 11 April | National Jurisdiction Area | Agri Holding                        | Medium |
| 2nd Deviation FINAL WITH BUFFER - 11 April | <b>Cadastre</b>            | Public Place                        | Low    |
| Site Area                                  | Erven                      | <b>Defence Combined Sensitivity</b> |        |
| EIA Application Development Footprint      | Farm Portion               | Very High                           |        |
| EIA Application Site                       | Farm                       | High                                |        |

0 2.75 5.5 km  
 Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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## Civil Aviation Sensitivities



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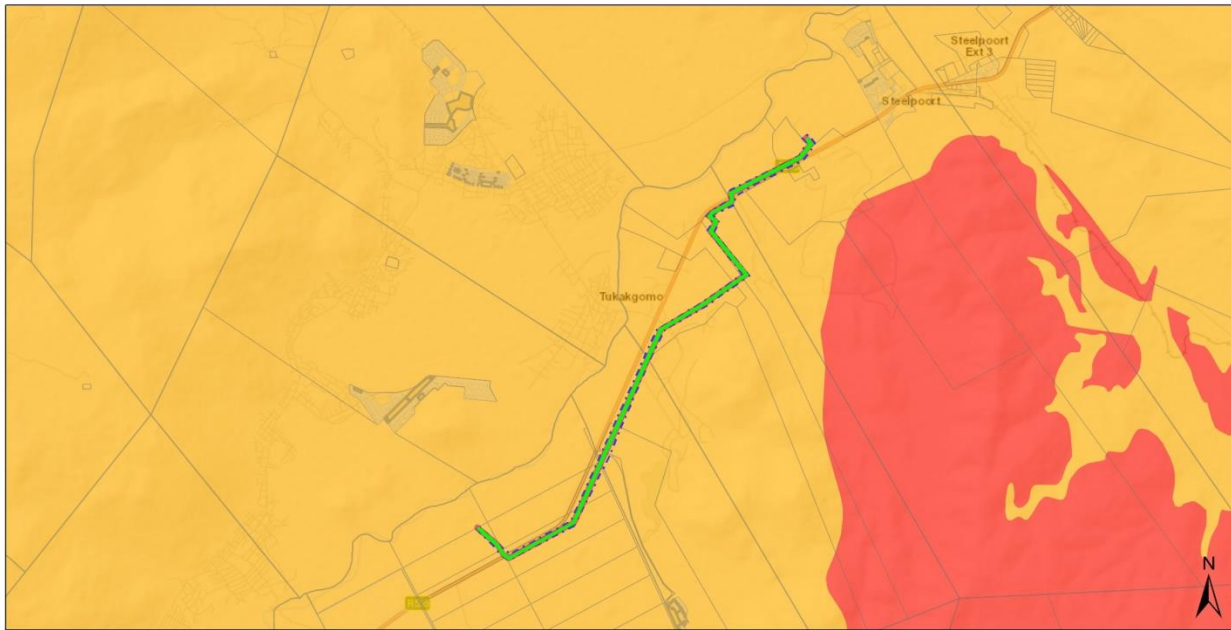
**Legend**

- |  |                            |  |        |
|--|----------------------------|--|--------|
| 2nd Deviation FINAL WITH BUFFER - 11 April | National Jurisdiction Area | Agri Holding                               | Medium |
| 2nd Deviation FINAL WITH BUFFER - 11 April | <b>Cadastre</b>            | Public Place                               | Low    |
| Site Area                                  | Erven                      | <b>Civil Aviation Combined Sensitivity</b> |        |
| EIA Application Development Footprint      | Farm Portion               | Very High                                  |        |
| EIA Application Site                       | Farm                       | High                                       |        |

0 2.75 5.5 km  
 Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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## Palaeontological Sensitivities



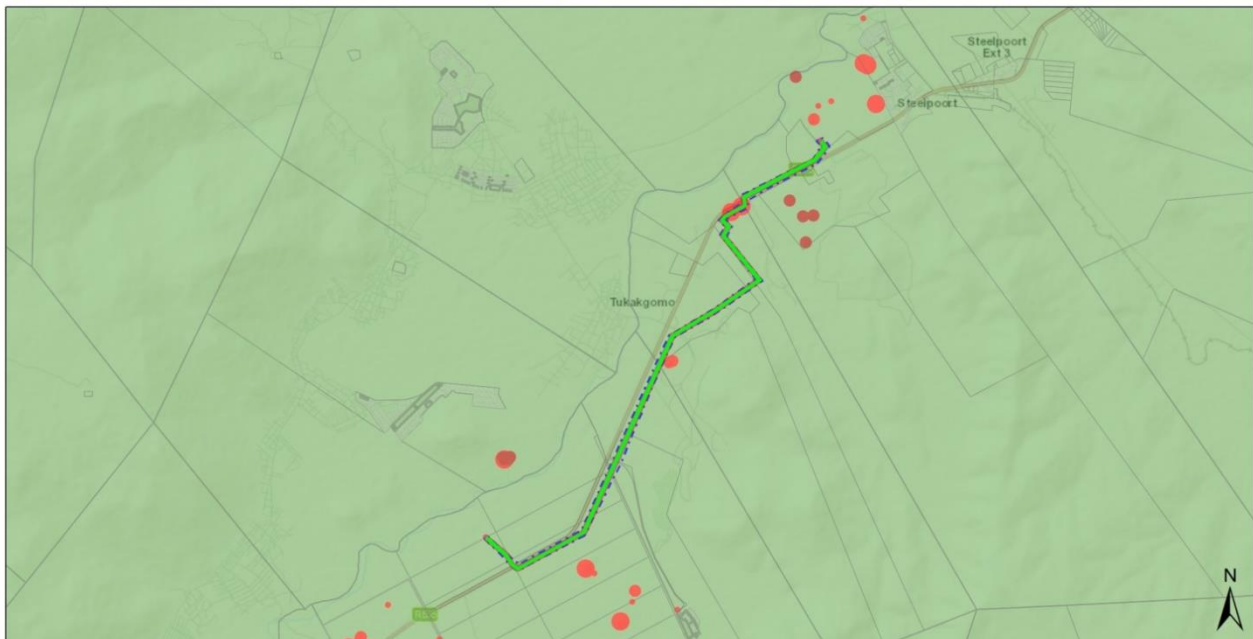
26 April 2023

- Legend**
- 2nd Deviation FINAL WITH BUFFER - 11 April
  - 2nd Deviation FINAL WITH BUFFER - 11 April
  - Site Area
  - EIA Application Development Footprint
  - EIA Application Site
  - National Jurisdiction Area
  - Cadastre
    - Erven
    - Farm Portion
    - Farm
  - Agri Holding
  - Public Place
  - Palaeontology Combined Sensitivity
    - Very High
    - High
  - Medium
  - Low

0 2.75 5.5 km  
 Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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## Archaeological Sensitivities



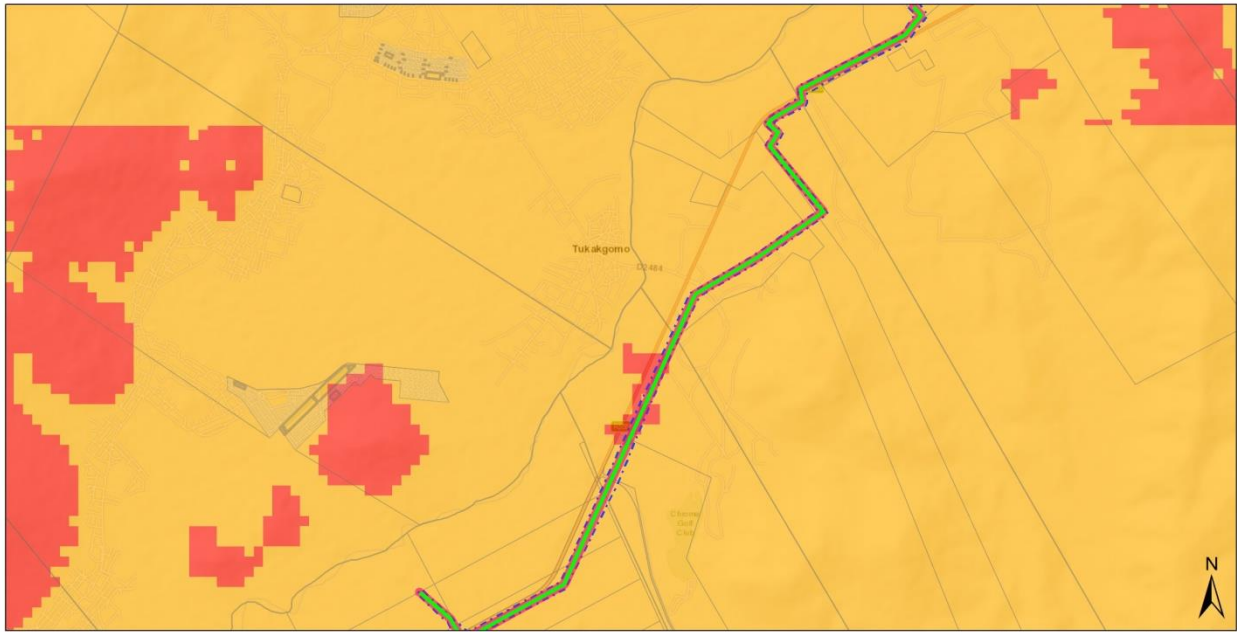
26 April 2023

- Legend**
- 2nd Deviation FINAL WITH BUFFER - 11 April
  - 2nd Deviation FINAL WITH BUFFER - 11 April
  - Site Area
  - EIA Application Development Footprint
  - EIA Application Site
  - National Jurisdiction Area
  - Cadastre
    - Erven
    - Farm Portion
    - Farm
  - Agri Holding
  - Public Place
  - Archaeological and Cultural Heritage Combined Sensitivity
    - Very High
    - High
  - Low

0 2.75 5.5 km  
 Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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## Animal Species Sensitivities



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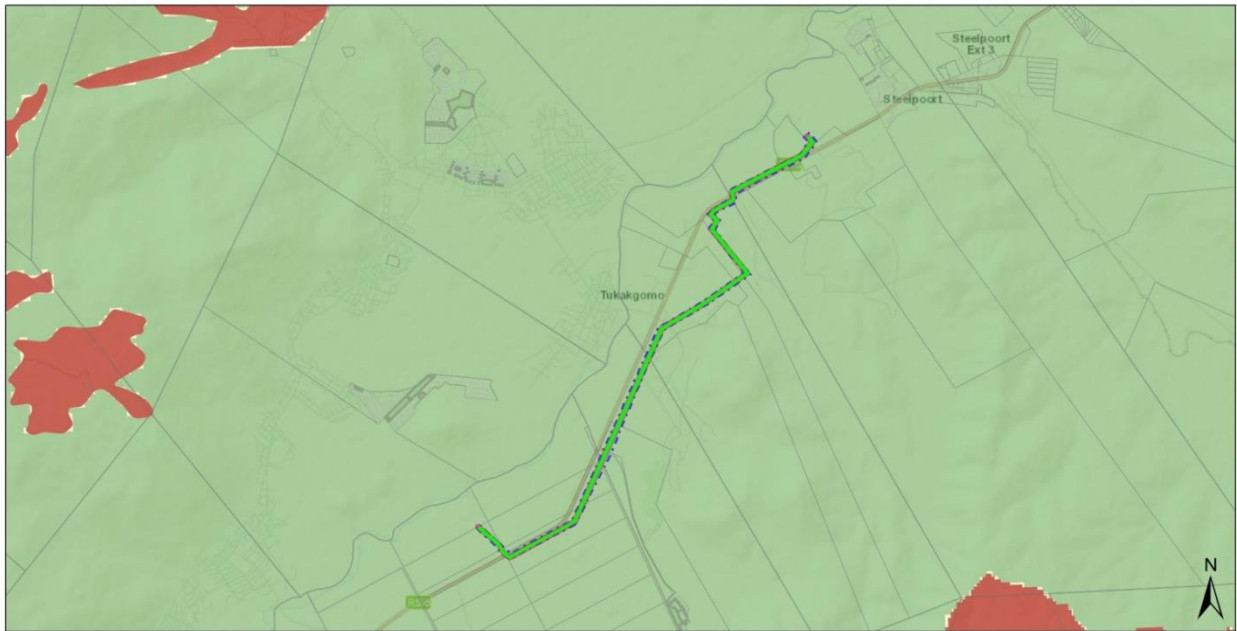
**Legend**

- |  |                            |                                     |        |
|--|----------------------------|-------------------------------------|--------|
| 2nd Deviation FINAL WITH BUFFER - 11 April | National Jurisdiction Area | Agri Holding                        | Medium |
| 2nd Deviation FINAL WITH BUFFER - 11 April | Cadastre                   | Public Place                        | Low    |
| Site Area                                  | Erven                      | Farm                                |        |
| EIA Application Development Footprint      | Farm Portion               | Animal Species Combined Sensitivity |        |
| EIA Application Site                       | Farm                       | Very High                           |        |
|  |                            | High                                |        |

0 1.75 3.5 km  
 Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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## Aquatic Biodiversity Sensitivities



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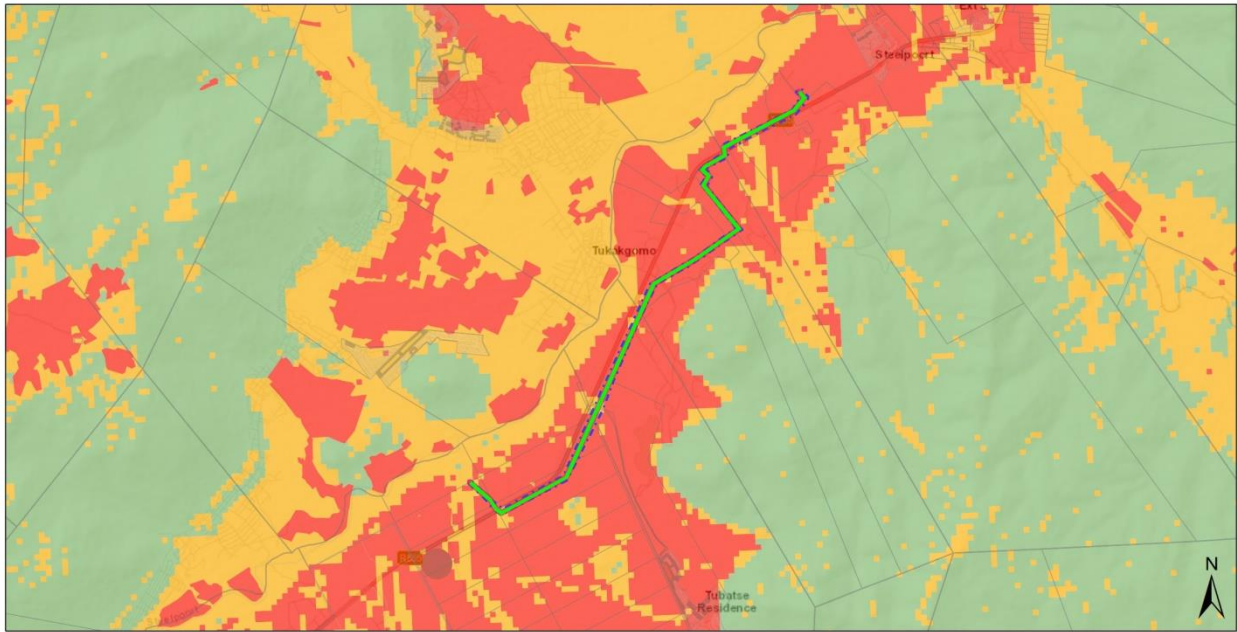
**Legend**

- |  |                            |   |  |
|--|----------------------------|---|--|
| 2nd Deviation FINAL WITH BUFFER - 11 April | National Jurisdiction Area | Agri Holding                              |  |
| 2nd Deviation FINAL WITH BUFFER - 11 April | Cadastre                   | Public Place                              |  |
| Site Area                                  | Erven                      | Farm                                      |  |
| EIA Application Development Footprint      | Farm Portion               | Aquatic Biodiversity Combined Sensitivity |  |
| EIA Application Site                       | Farm                       | Very High                                 |  |
|  |                            | Low                                       |  |

0 2.75 5.5 km  
 Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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26 April 2023

Legend

- |  |                            |   |        |
|--|----------------------------|---|--------|
| 2nd Deviation FINAL WITH BUFFER - 11 April | National Jurisdiction Area | Agri Holding                            | Medium |
| 2nd Deviation FINAL WITH BUFFER - 11 April | <b>Cadastre</b>            | Public Place                            | Low    |
| Site Area                                  | Erven                      | <b>Agriculture Combined Sensitivity</b> |        |
| EIA Application Development Footprint      | Farm Portion               | Very High                               |        |
| EIA Application Site                       | Farm                       | High                                    |        |

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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Legend

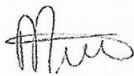
- |  |                            |  |
|--|----------------------------|--|
| 2nd Deviation FINAL WITH BUFFER - 11 April | National Jurisdiction Area | Agri Holding   |
| 2nd Deviation FINAL WITH BUFFER - 11 April | <b>Cadastre</b>            | Public Place   |
| Site Area                                  | Erven                      | <b>Terrestrial Biodiversity Combined Sensitivity</b> |
| EIA Application Development Footprint      | Farm Portion               | Very High  |
| EIA Application Site                       | Farm                       | Low  |

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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### 7.3 Sub-section 3: Declaration

The proponent/applicant or holder of the EA affirms that he/she will abide and comply with the prescribed impact management outcomes and impact management actions as stipulated in Part B: Section 1 of the generic EMPr and have the understanding that the impact management outcomes and impact management actions are legally binding. The proponent/applicant or holder of the EA affirms that he/she will provide written notice to the CA 14 day prior to the date on which the activity will commence of commencement of construction to facilitate compliance inspections.



03 May 2023

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**Signature**  
**Proponent / Applicant / Holder of EA**

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**Date**

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