



**PROPOSED CONSTRUCTION  
OF THE KLIPKRAAL  
WIND ENERGY FACILITY  
PHASE 1**





WITHIN THE  
KAROO HOOGLAND LOCAL MUNICIPALITY,  
NORTHERN CAPE PROVINCE

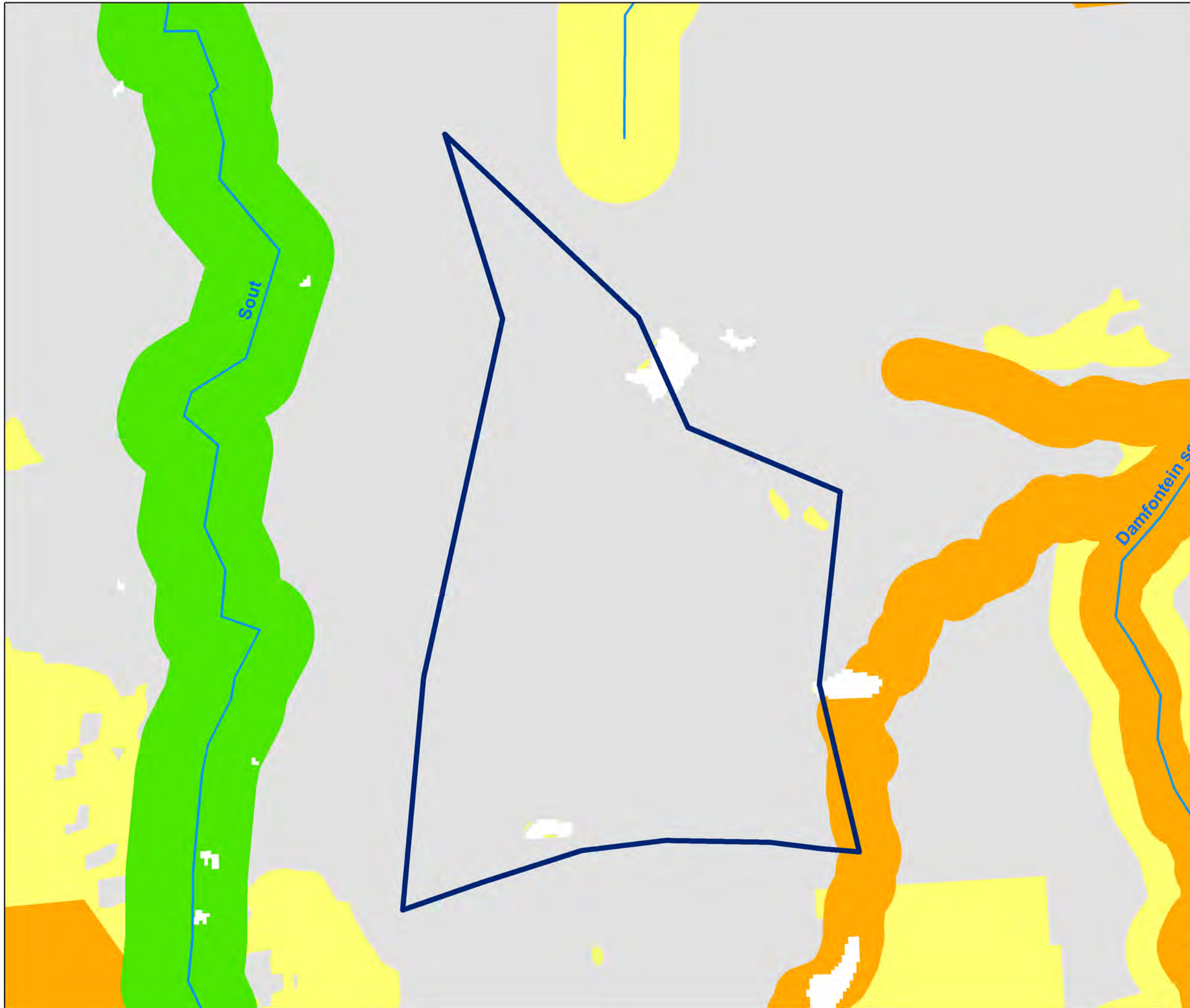
**CRITICAL BIODIVERSITY AREAS**

**Legend**

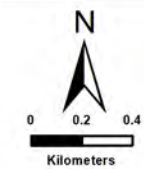
-  Rivers
-  Klipkraal Phase 1 WEF Site

**CBA Classification**

-  CBA 1
-  CBA 2
-  ESA
-  Other Natural Areas



Source:  
NFEPA 2011  
NORTHERN CAPE BIODIVERSITY SPATIAL PLAN 2017



**ENVIRONMENTAL DIVISION**  
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<b>Project No</b> 16891	<b>Prepared By</b> SB	<b>Date</b> 10/08/2022
<b>Map Ref No</b> 16891	<b>Revision</b> 0	<b>Date</b> _____

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**BROAD LANDCOVER CLASSIFICATION**

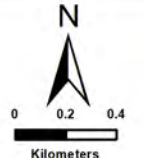
**Legend**

- Rivers
- Klipkraal Phase 1 WEF Site

**Land Cover Classification**

- Artificial Dams (including canals)
- Bare Riverbed Material
- Commercial Annual Crops Non-Pivot Irrigated
- Commercial Annual Crops Rain-fed / Dryland
- Contiguous & Dense Plantation Forest
- Cultivated Commercial Permanent Orchards
- Dense Forest & Woodland
- Dry Pans
- Eroded Lands
- Herbaceous Wetlands (previously mapped)
- Low Shrubland (Fynbos)
- Low Shrubland (Nama Karoo)
- Low Shrubland (other)
- Mines: Extraction Pits, Quarries
- Natural Grassland
- Natural Pans (flooded @ observation times)
- Natural Rock Surfaces
- Open & Sparse Plantation Forest
- Open Woodland
- Other Bare
- Roads & Rails (major linear)
- Sparsely Wooded Grassland
- Village Scattered (Bare & Low Veg/ Grass combo)

Source:  
NFEPA 2011  
2018 SA NATIONAL LAND COVER  
(© GEOTERRAIMAGE - 2018)



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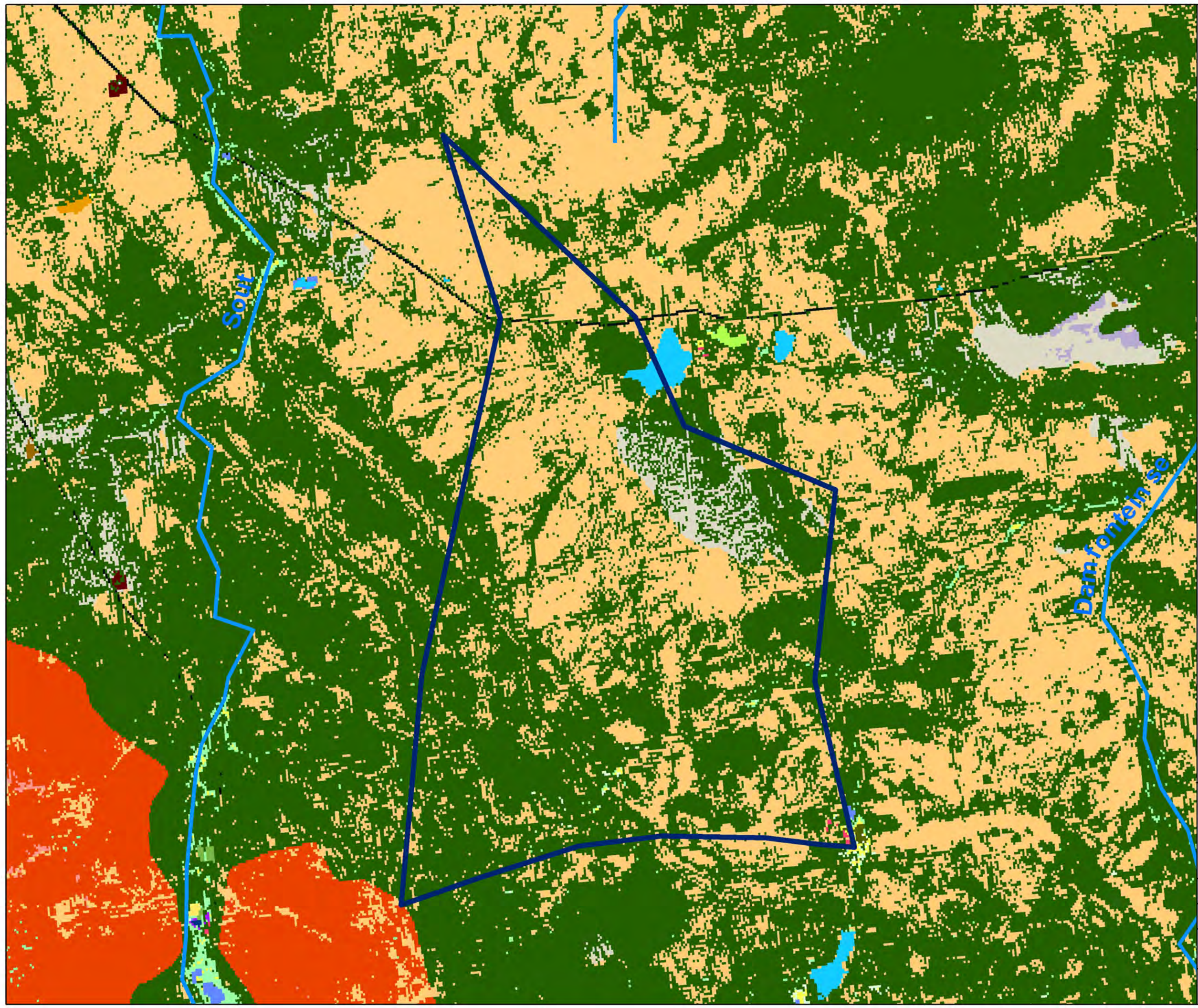
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**SENSITIVITY LAYOUT**

**Legend**

- Foot Paths
- Access Roads (existing)
- Klipkraal Phase 1 WEF Site

**Proposed WEF Components**

- Proposed Turbine Locations
- Cabling
- Internal Roads
- Switching Yard
- Offices and Buildings
- Battery Storage Area

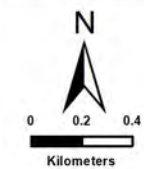
**Environmental Sensitivities (No-Go)**

- Aquatic Features
- Avifaunal Sensitivity
- Bat Sensitivity
- Heritage Sensitivity
- Noise Sensitivity
- Terrestrial Sensitivity (Including Dwarf Tortoise)

**Environmental Sensitivities (minor encroachment allowed)**

- Bat Medium Sensitivity
- Terrestrial High Sensitivity

Source:  
NGI, 2014

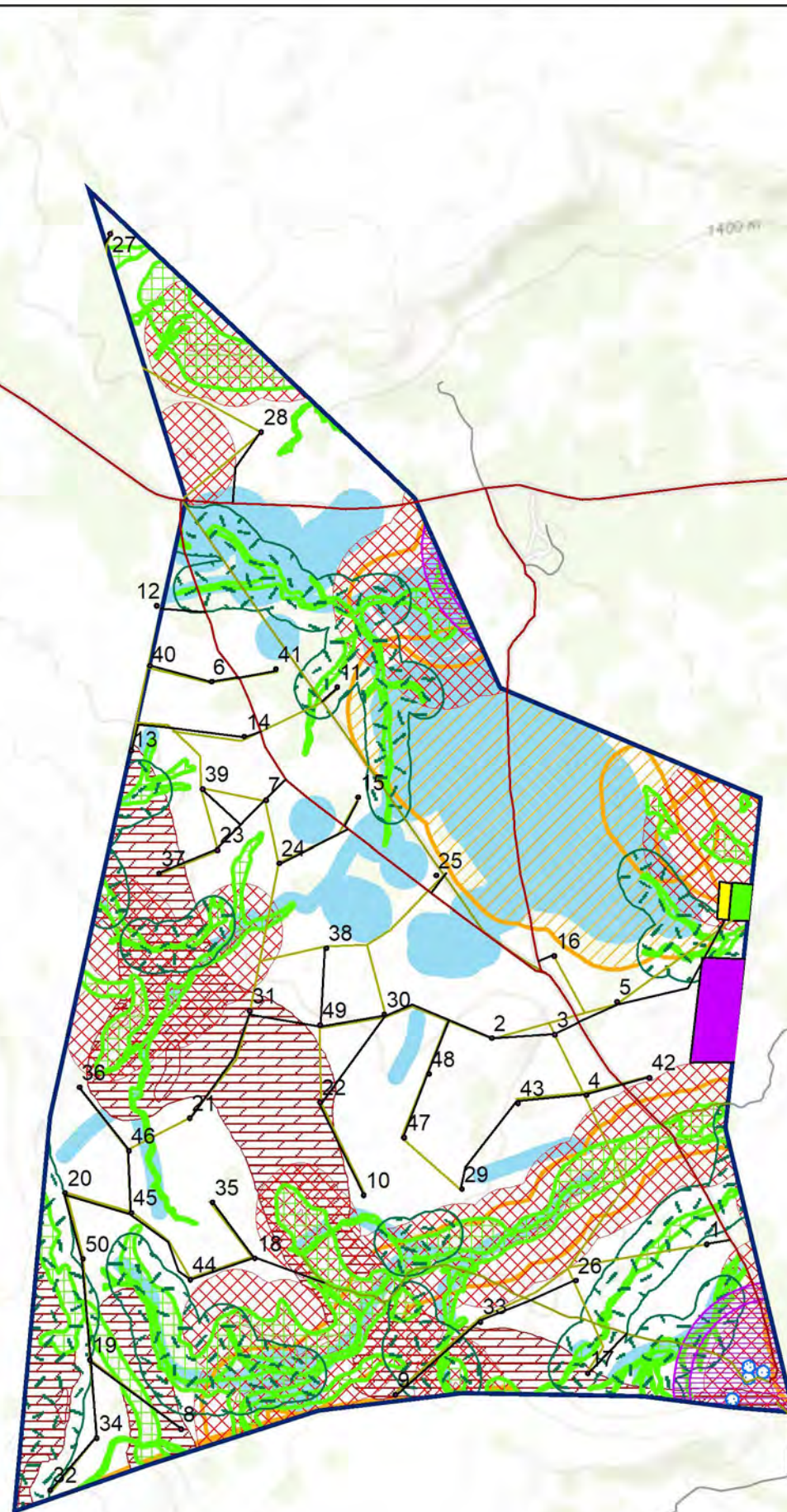


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PHASE 1**








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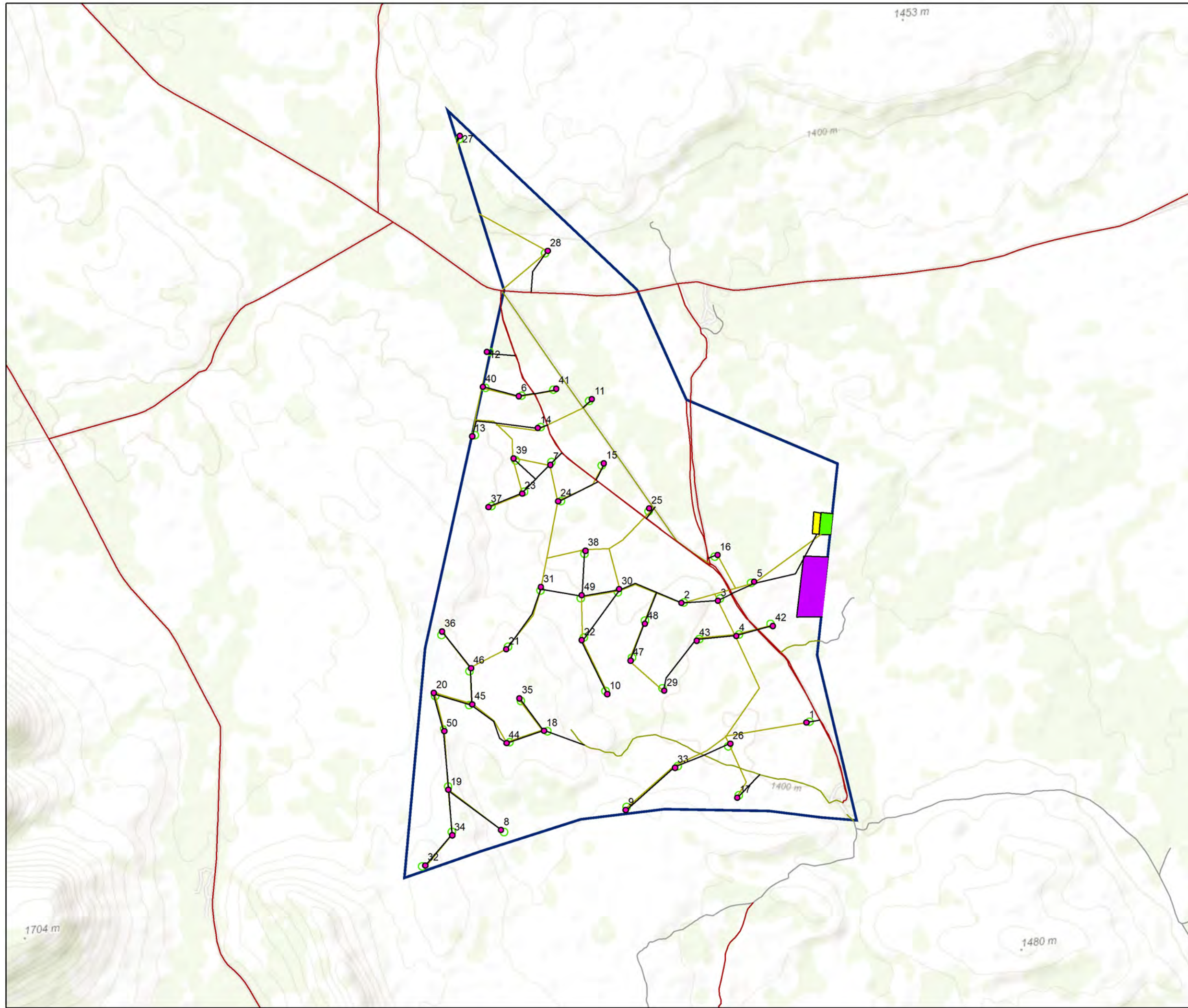
**PROPOSED LAYOUT**

**Legend**

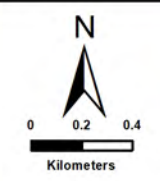
-  Foot Paths
-  Access Roads (existing)
-  Klipkraal Phase 1 WEF Site

**Proposed WEF Components**

-  Proposed Turbine Locations
-  Foundations
-  Cabling
-  Internal Roads
-  Switching Yard
-  Offices and Buildings
-  Battery Storage Area



Source:  
NGI, 2014



**SIVEST**

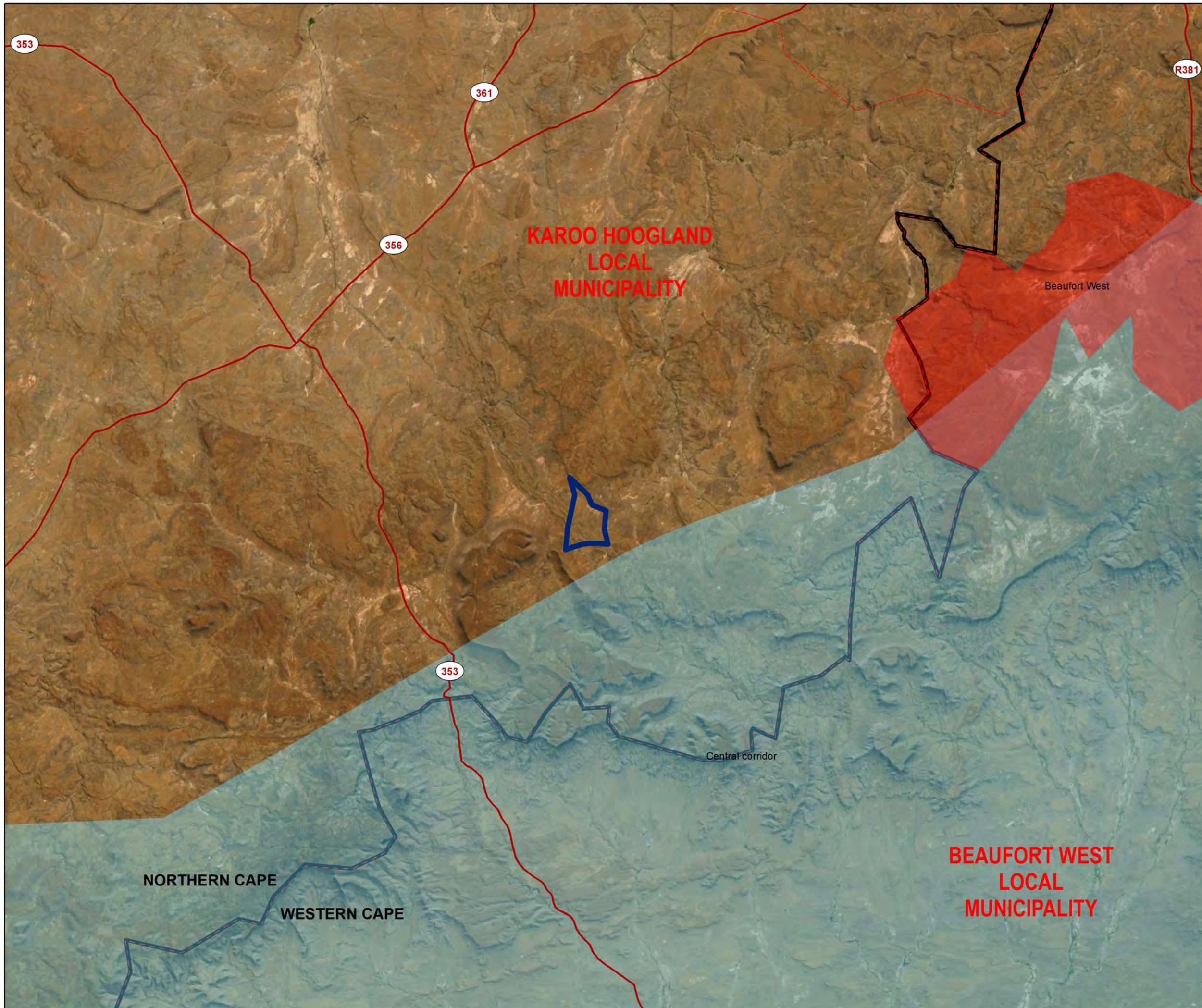
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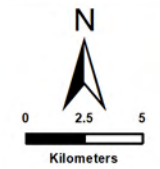


**PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 1**  
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE  
 RENEWABLE ENERGY DEVELOPMENT ZONES

**Legend**

- Main Arterial Routes
- Local Municipal Boundaries
- Provincial Boundary
- Phase 2 REDZs
- Power Corridors
- Klipkraal Phase 1 WEF Site

Source:  
 NGI, 2014  
 MUNICIPAL DERMACATION BOARD, 2016

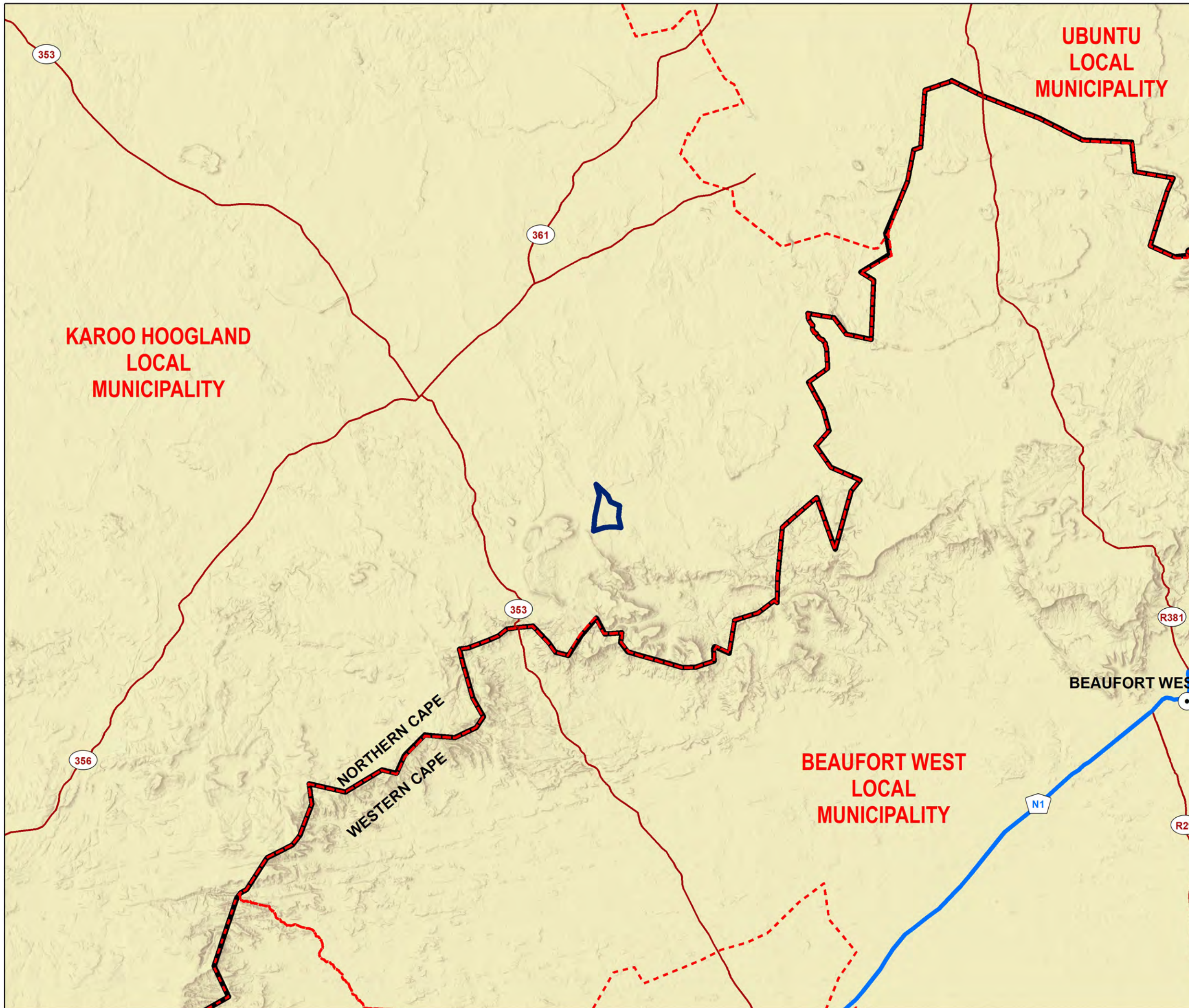


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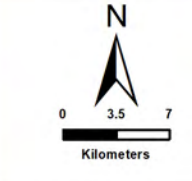
**PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 1**  
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE  
**REGIONAL CONTEXT**

**Legend**

- Main Towns
- National Route
- Main Arterial Routes
- Local Municipal Boundaries
- Provincial Boundary
- Klipkraal Phase 1 WEF Site



Source:  
 NGI, 2014  
 MUNICIPAL DERMACATION BOARD, 2016

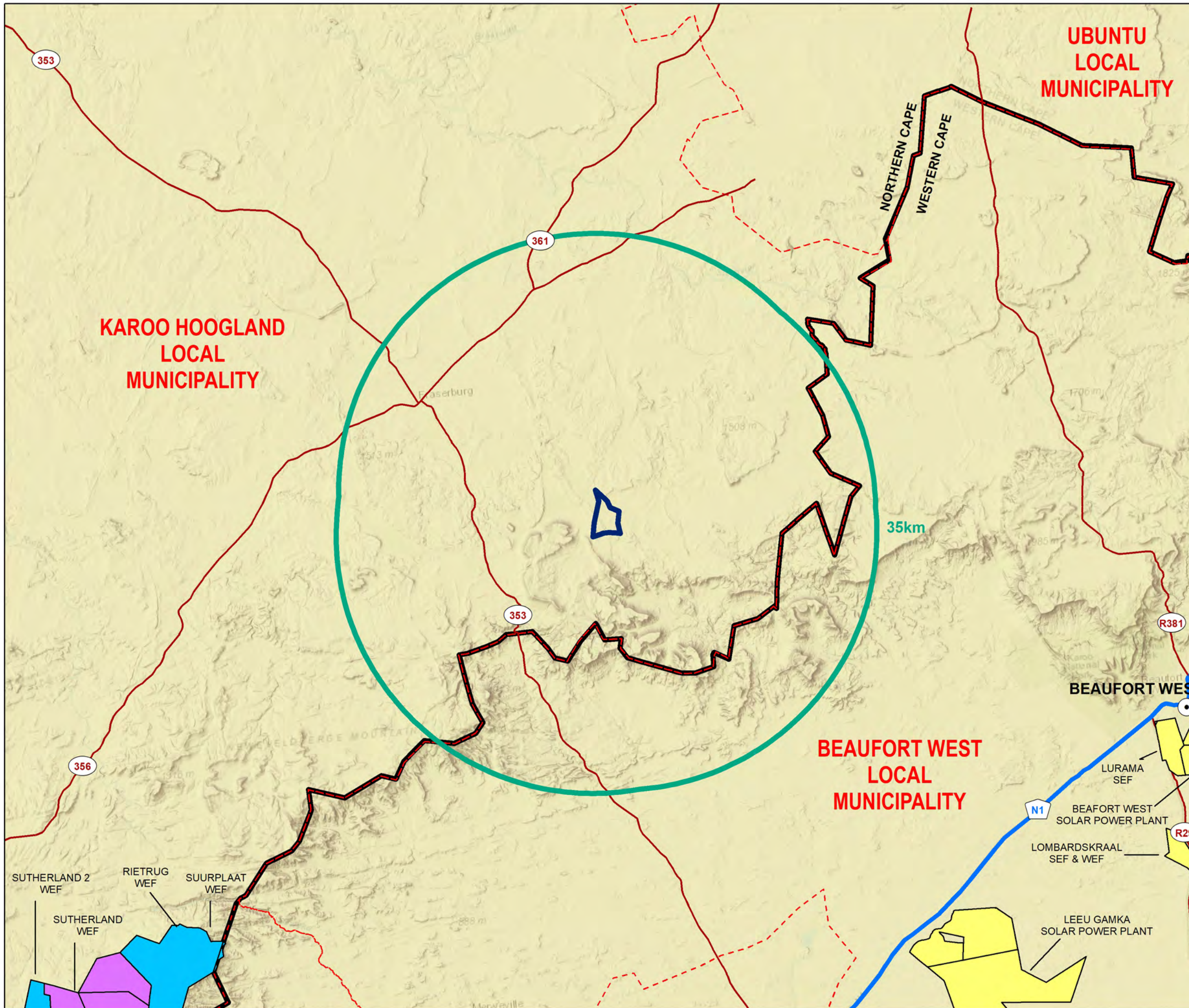


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**KAROO HOOGLAND LOCAL MUNICIPALITY**

**UBUNTU LOCAL MUNICIPALITY**

**BEAUFORT WEST LOCAL MUNICIPALITY**

**PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 1**  
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE  
**RENEWABLE ENERGY PROJECTS (NEW AND PROPOSED)**

**Legend**

- Main Towns
- National Route
- Main Arterial Routes
- Local Municipal Boundaries
- Provincial Boundary
- Klipkraal Phase 1 WEF Site
- 35km Radius

**Renewable Energy Sites**

- Solar PV
- Onshore Wind
- No Technology

Source: NGI, 2014  
 MUNICIPAL DERMICATION BOARD, 2016  
 DFFE, 2020



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SUTHERLAND 2 WEF  
 RIETRUG WEF  
 SUURPLAAT WEF  
 SUTHERLAND WEF


BEAUFORT WEST  
 LURAMA SEF  
 BEAUFORT WEST SOLAR POWER PLANT  
 LOMBARDSKRAAL SEF & WEF  
 N1  
 R29  
 LEEU GAMKA SOLAR POWER PLANT

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**SITE LOCALITY**

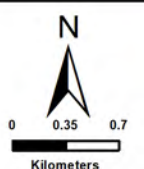
**Legend**

-  Local Access
-  Farm Portions
-  Klipkraal Phase 1 WEF Site

**SOUTH AFRICA**



Source:  
NGI, 2014



**SIVEST**

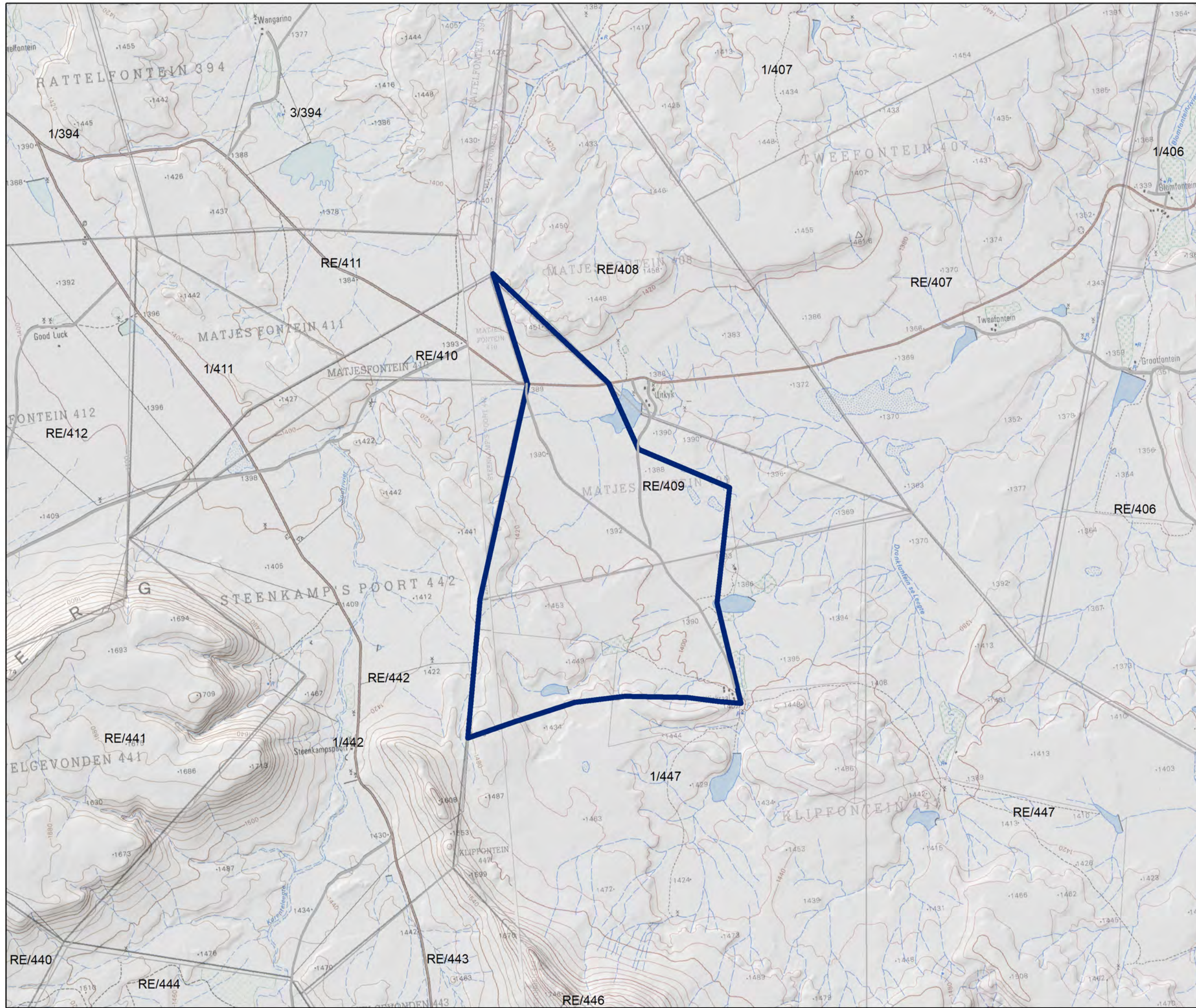
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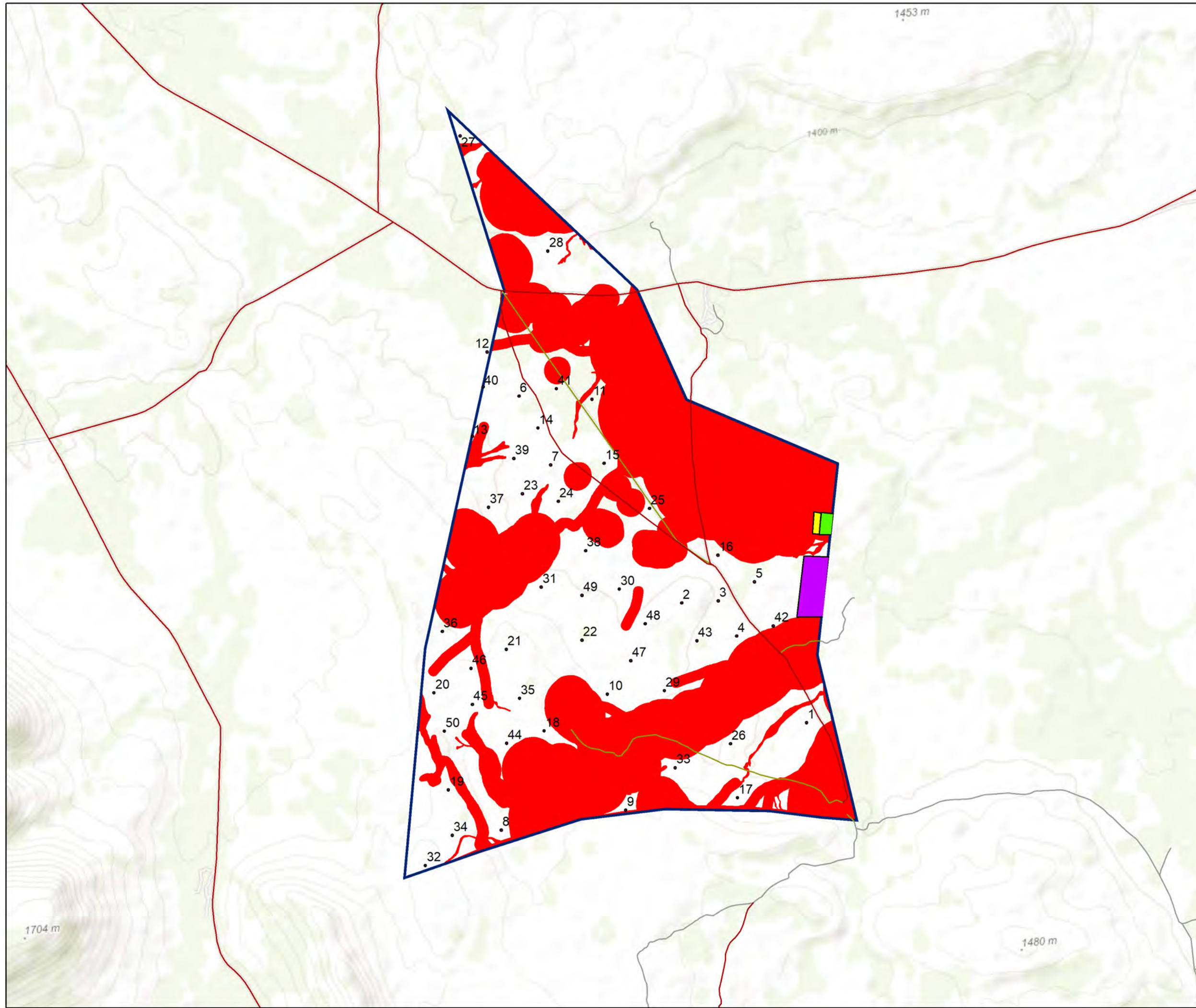
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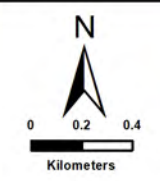
**TURBINE SENSITIVITY LAYOUT**

**Legend**

- Foot Paths
  - Access Roads (existing)
  - Klipkraal Phase 1 WEF Site
- Proposed WEF Components**
- Proposed Turbine Locations
  - Switching Yard
  - Offices and Buildings
  - Battery Storage Area
- Sensitivity Category**
- No-Go



Source:  
NGI, 2014



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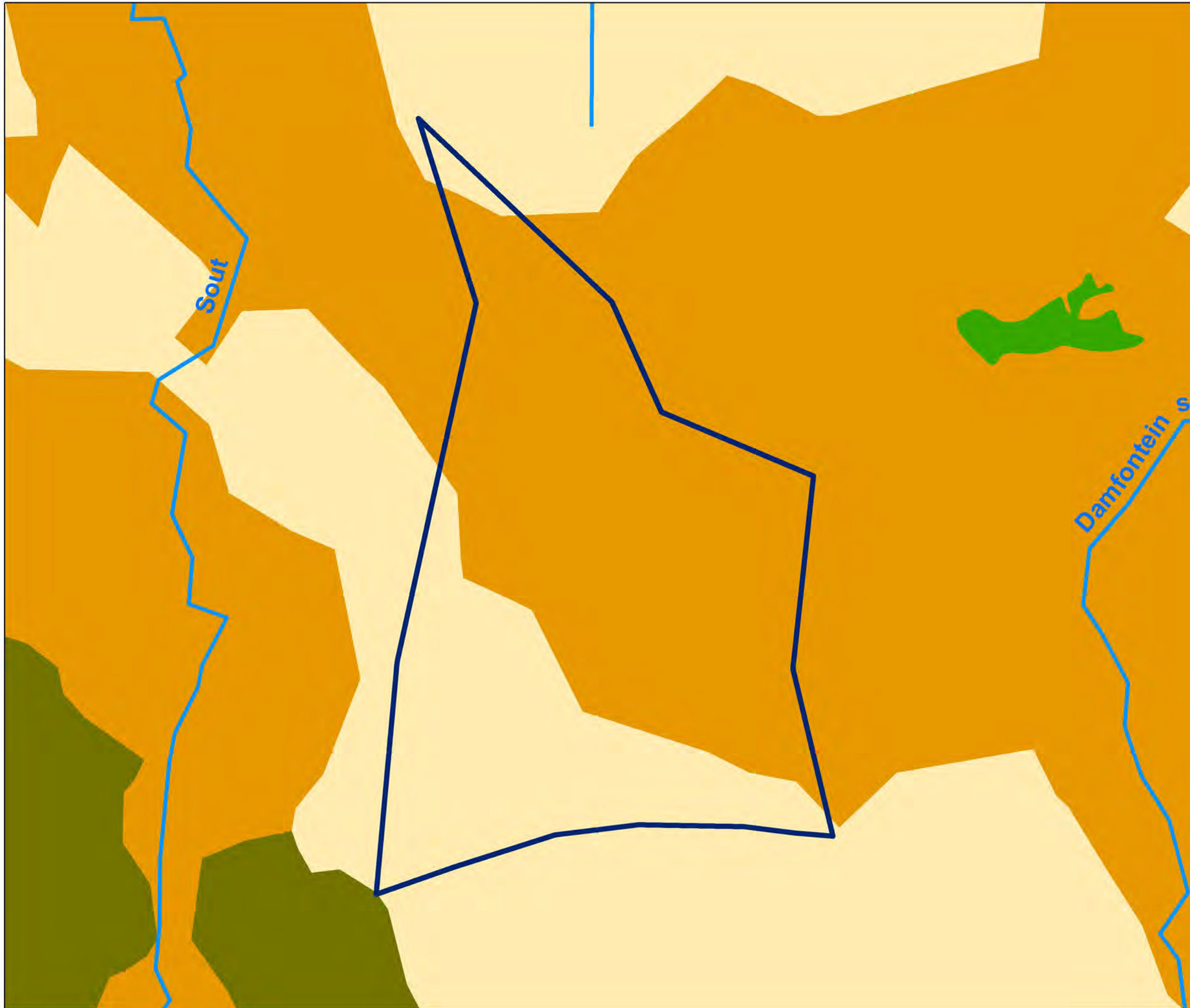
**VEGETATION CLASSIFICATION**

**Legend**

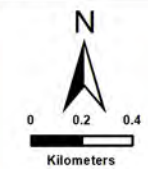
-  Rivers
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**Vegetation Classification**

-  Bushmanland Vloere
-  Eastern Upper Karoo
-  Roggeveld Shale Renosterveld
-  Western Upper Karoo



Source:  
NFEPA 2011  
SANBI 2018



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