







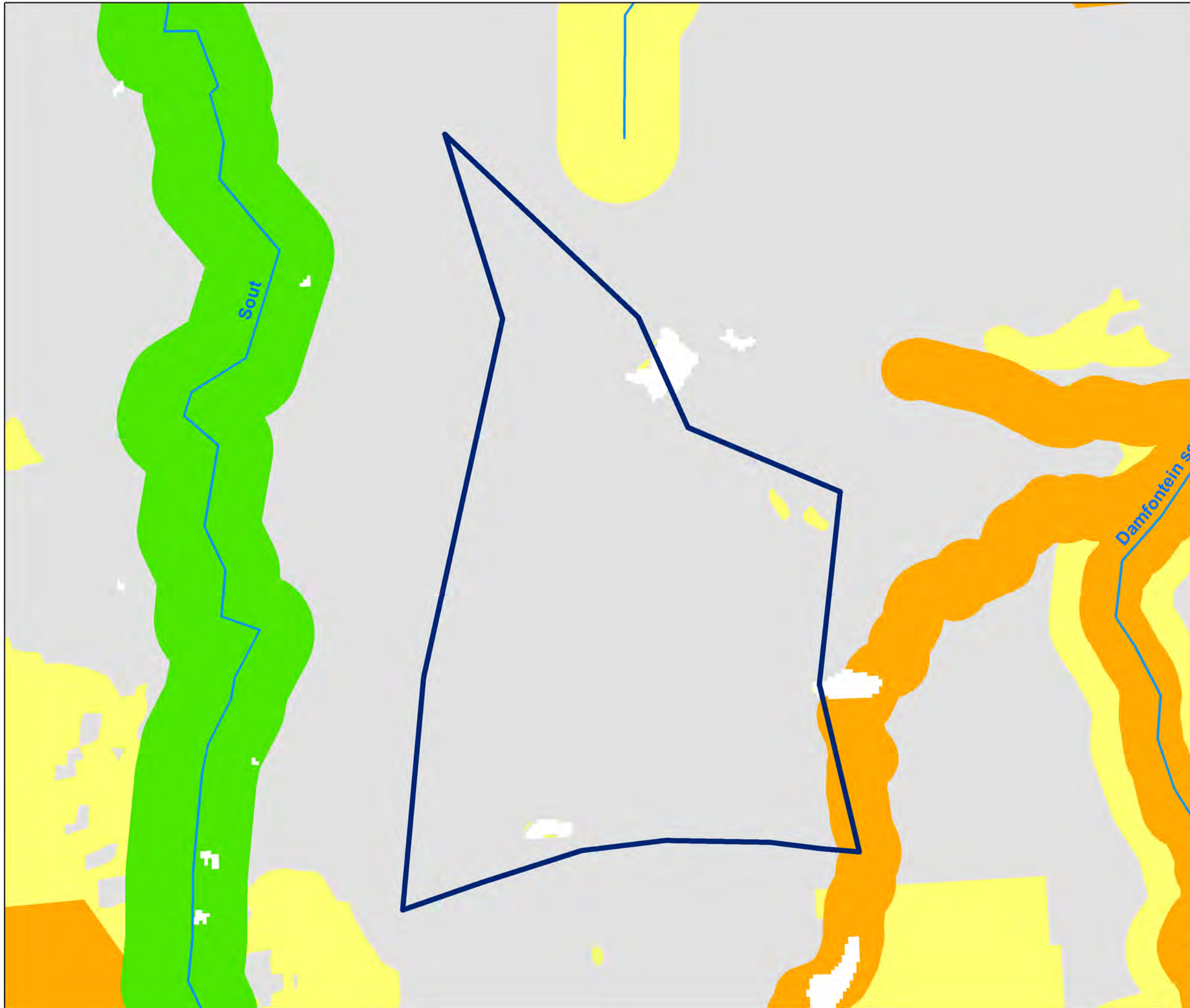
**PROPOSED CONSTRUCTION
OF THE KLIPKRAAL
WIND ENERGY FACILITY
PHASE 1**
WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
CRITICAL BIODIVERSITY AREAS

Legend

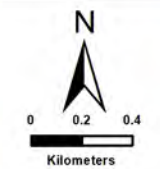
-  Rivers
-  Klipkraal Phase 1 WEF Site

CBA Classification

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



Source:
NFEPA 2011
NORTHERN CAPE BIODIVERSITY SPATIAL PLAN 2017



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
























WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE

BROAD LANDCOVER CLASSIFICATION

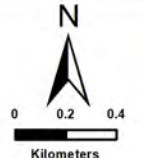
Legend

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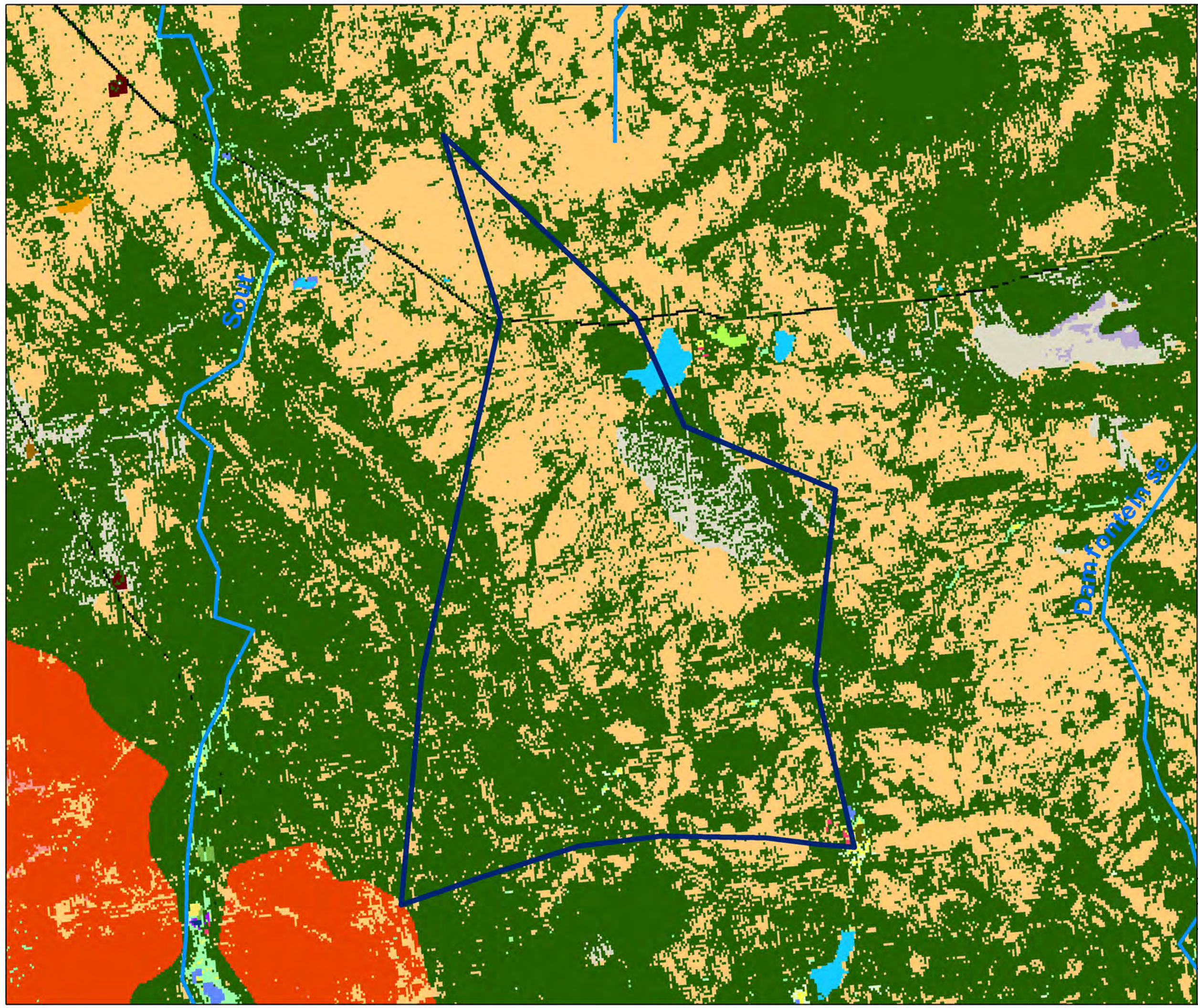
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**PROPOSED CONSTRUCTION
OF THE KLIPKRAAL
WIND ENERGY FACILITY
PHASE 1**

WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE

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

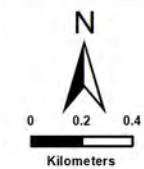
Environmental Sensitivities (No-Go)

- 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

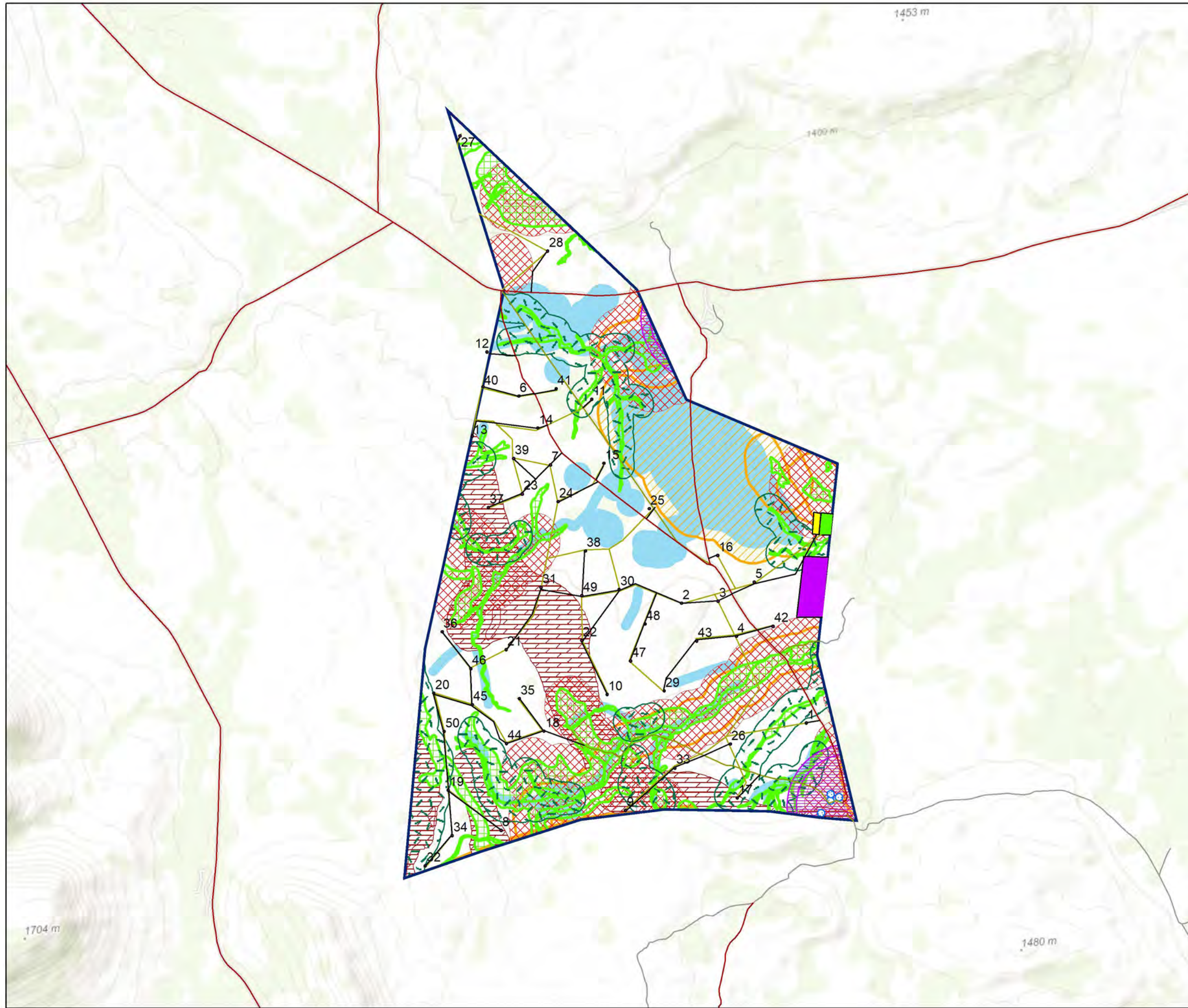


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WIND ENERGY FACILITY
PHASE 1**

WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE

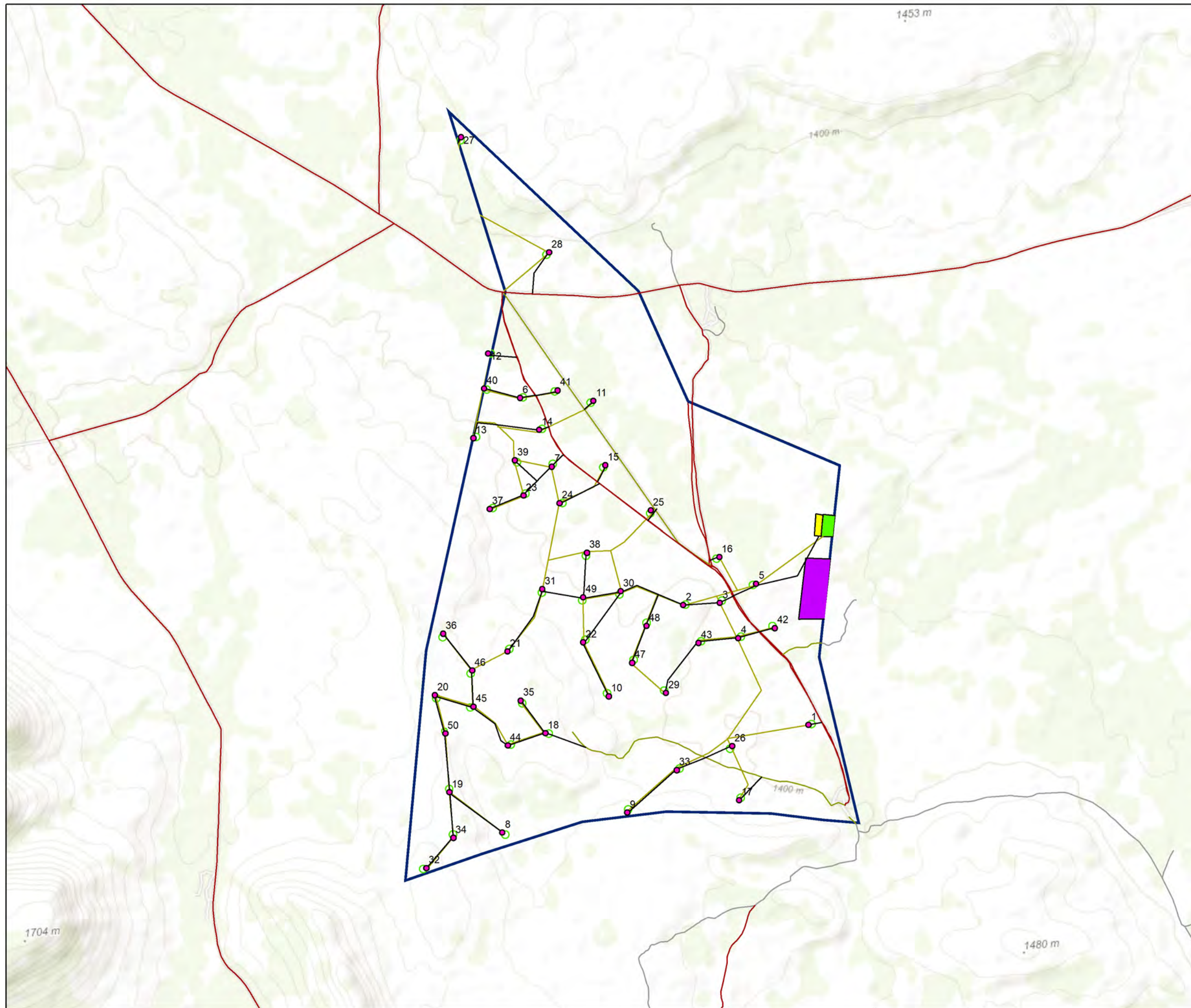
PROPOSED LAYOUT

Legend

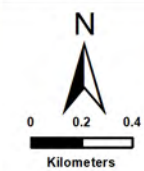
- Foot Paths
- Access Roads (existing)
- Klipkraal Phase 1 WEF Site

Proposed WEF Components

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



Source:
NGI, 2014



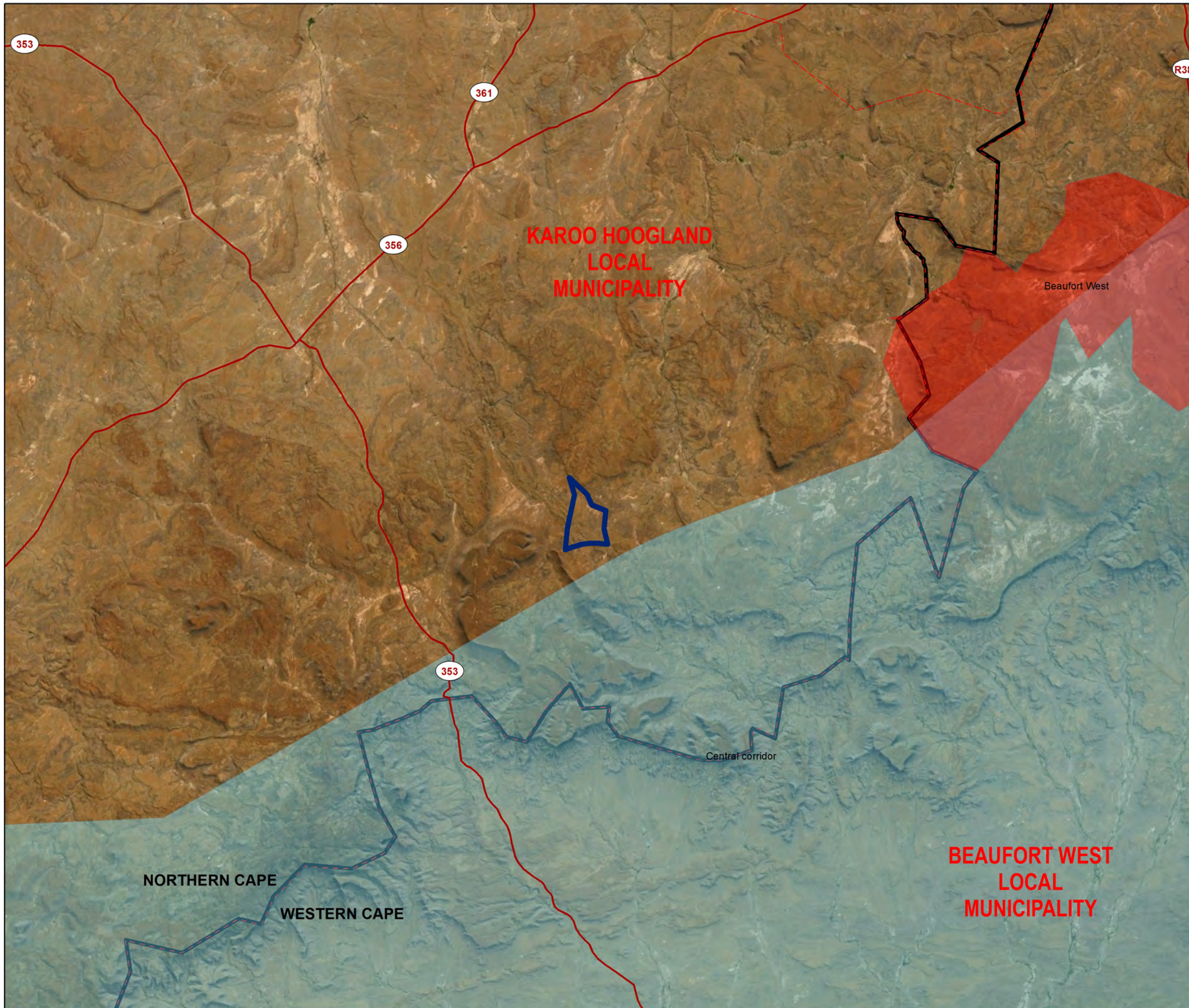
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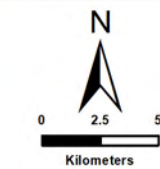


PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 1
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
 RENEWABLE ENERGY DEVELOPMENT ZONES

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

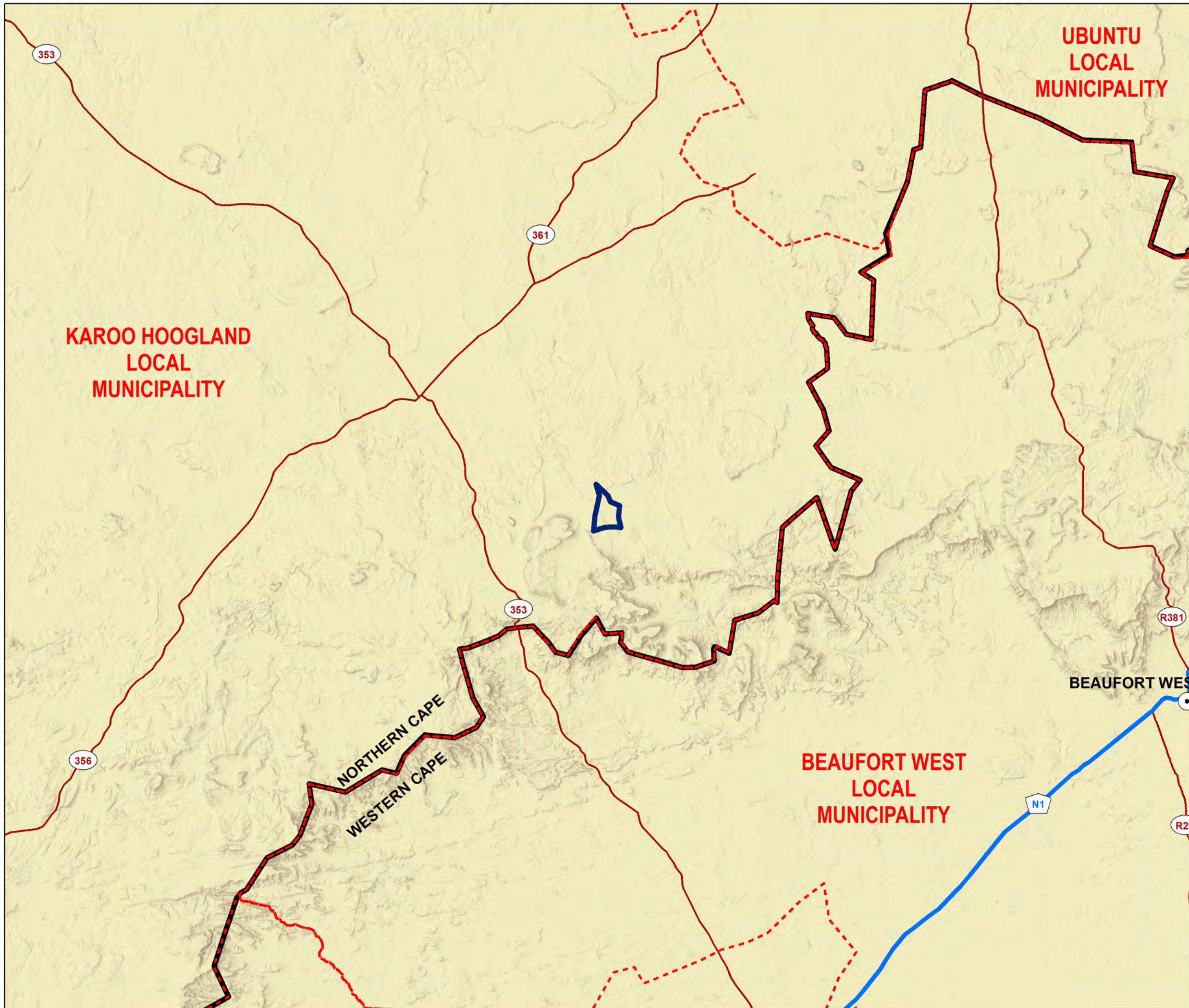


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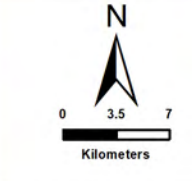
PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 1
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
REGIONAL CONTEXT

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

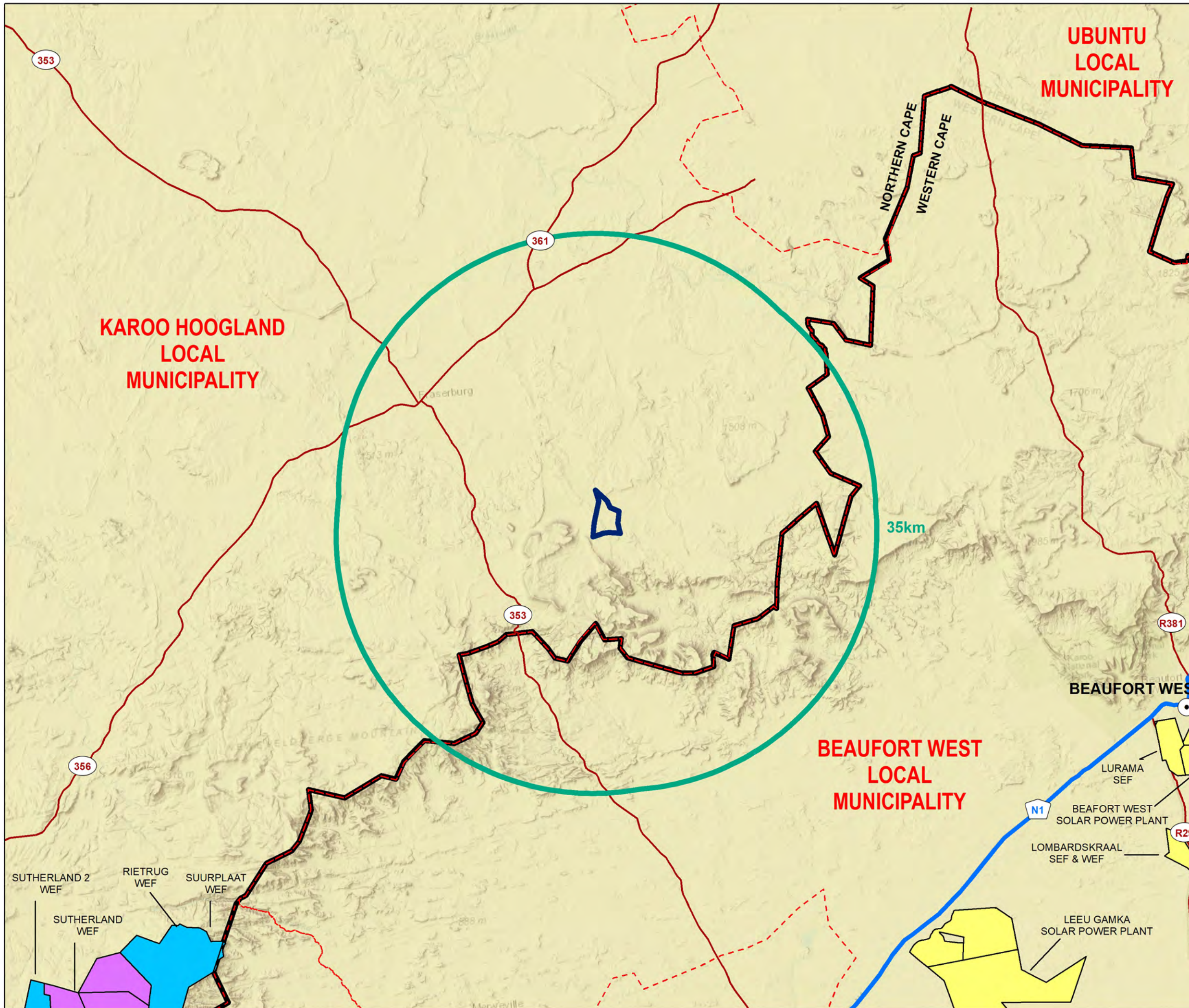


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PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 1
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
RENEWABLE ENERGY PROJECTS (NEW AND PROPOSED)

- 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 DERMACATION 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




LEEU GAMKA SOLAR POWER PLANT

**PROPOSED CONSTRUCTION
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WIND ENERGY FACILITY
PHASE 1**

WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
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SITE LOCALITY

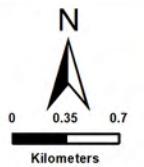
Legend

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

SOUTH AFRICA



Source:
NGI, 2014



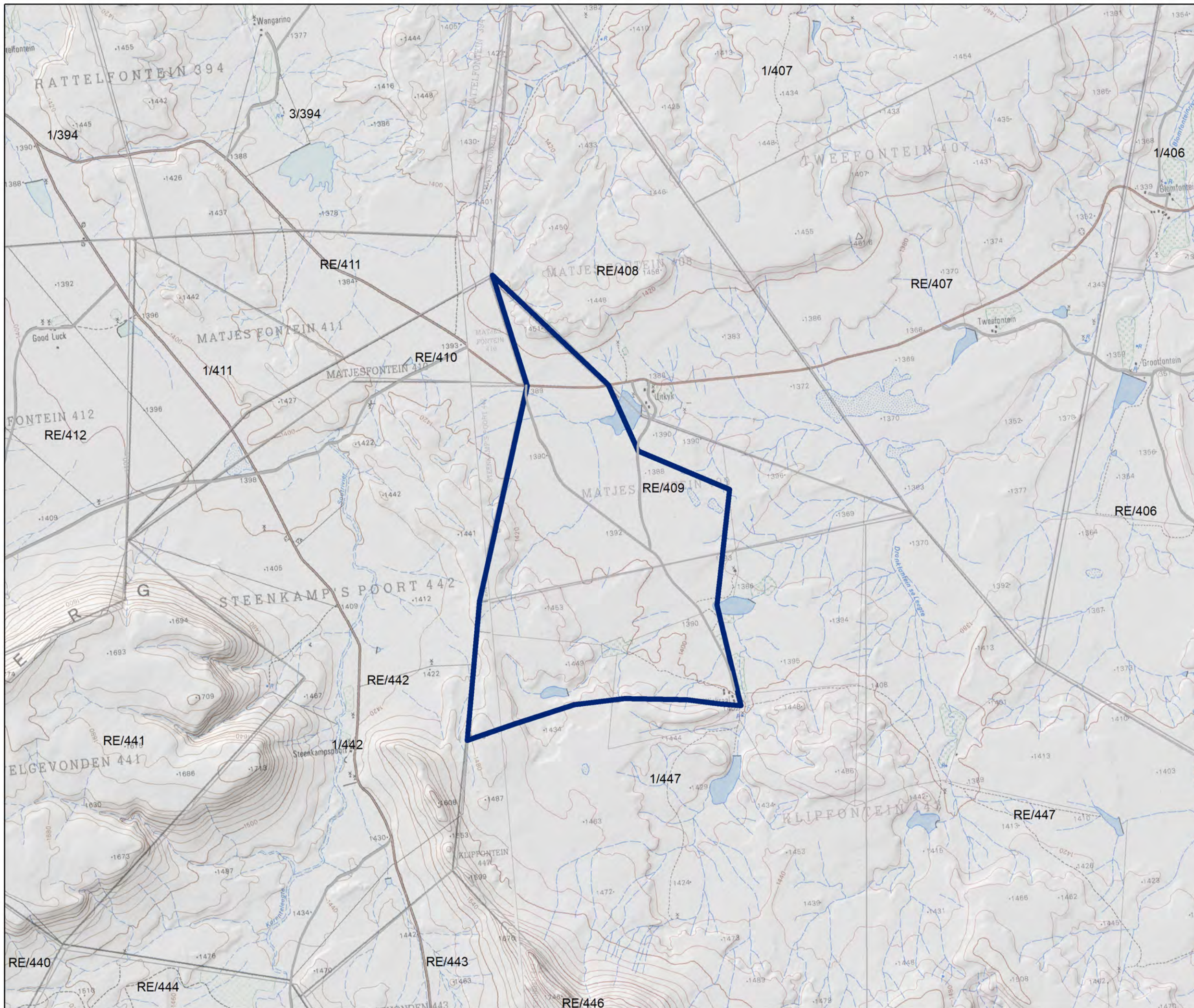
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WIND ENERGY FACILITY
PHASE 1**

WITHIN THE
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TURBINE SENSITIVITY LAYOUT

Legend

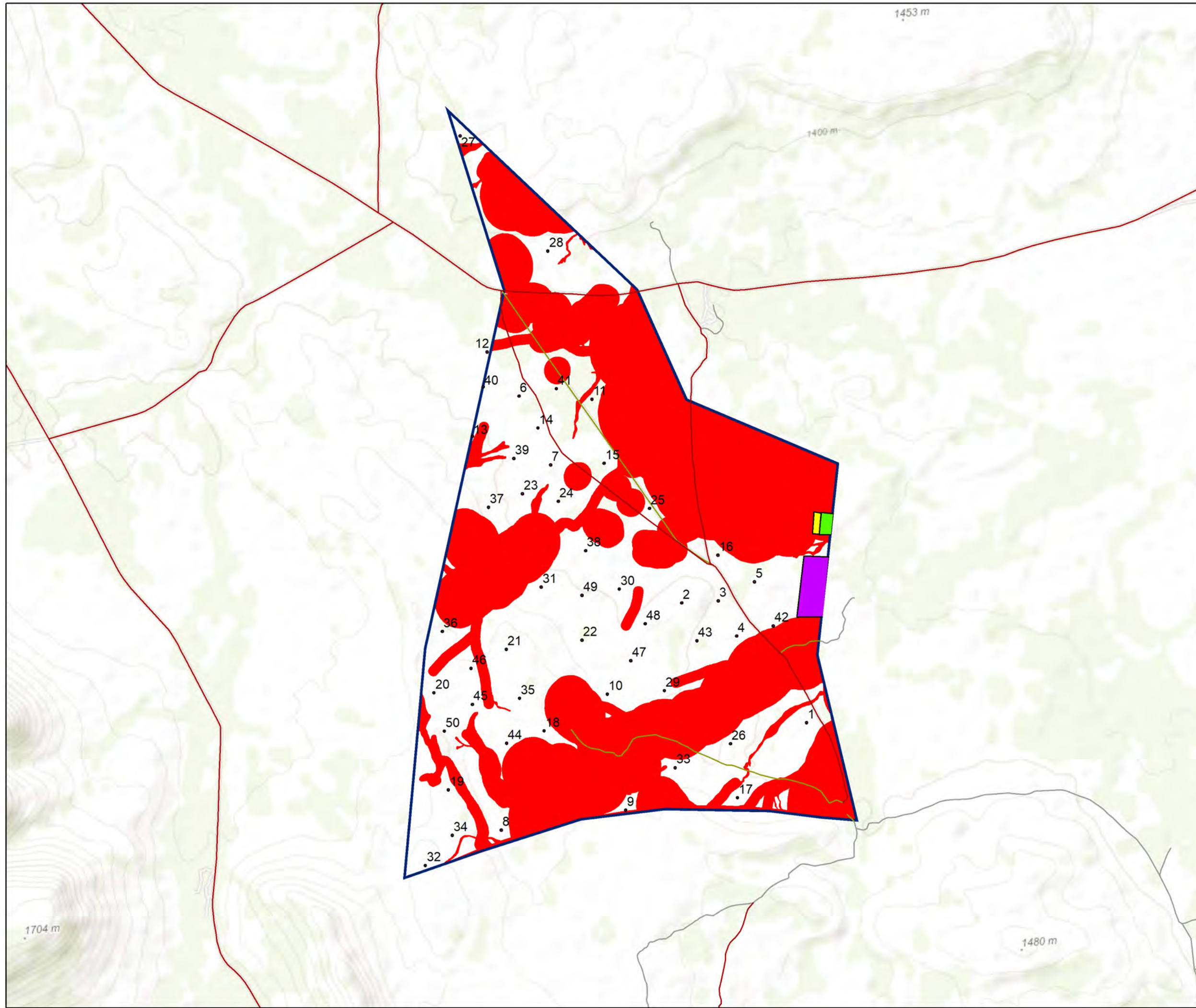
- Foot Paths
- Access Roads (existing)
- Klipkraal Phase 1 WEF Site

- Proposed WEF Components**

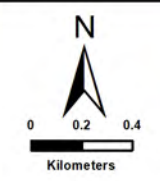
 - Proposed Turbine Locations
 - Switching Yard
 - Offices and Buildings
 - Battery Storage Area

- Sensitivity Category**

 - No-Go



Source:
NGI, 2014



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NORTHERN CAPE PROVINCE

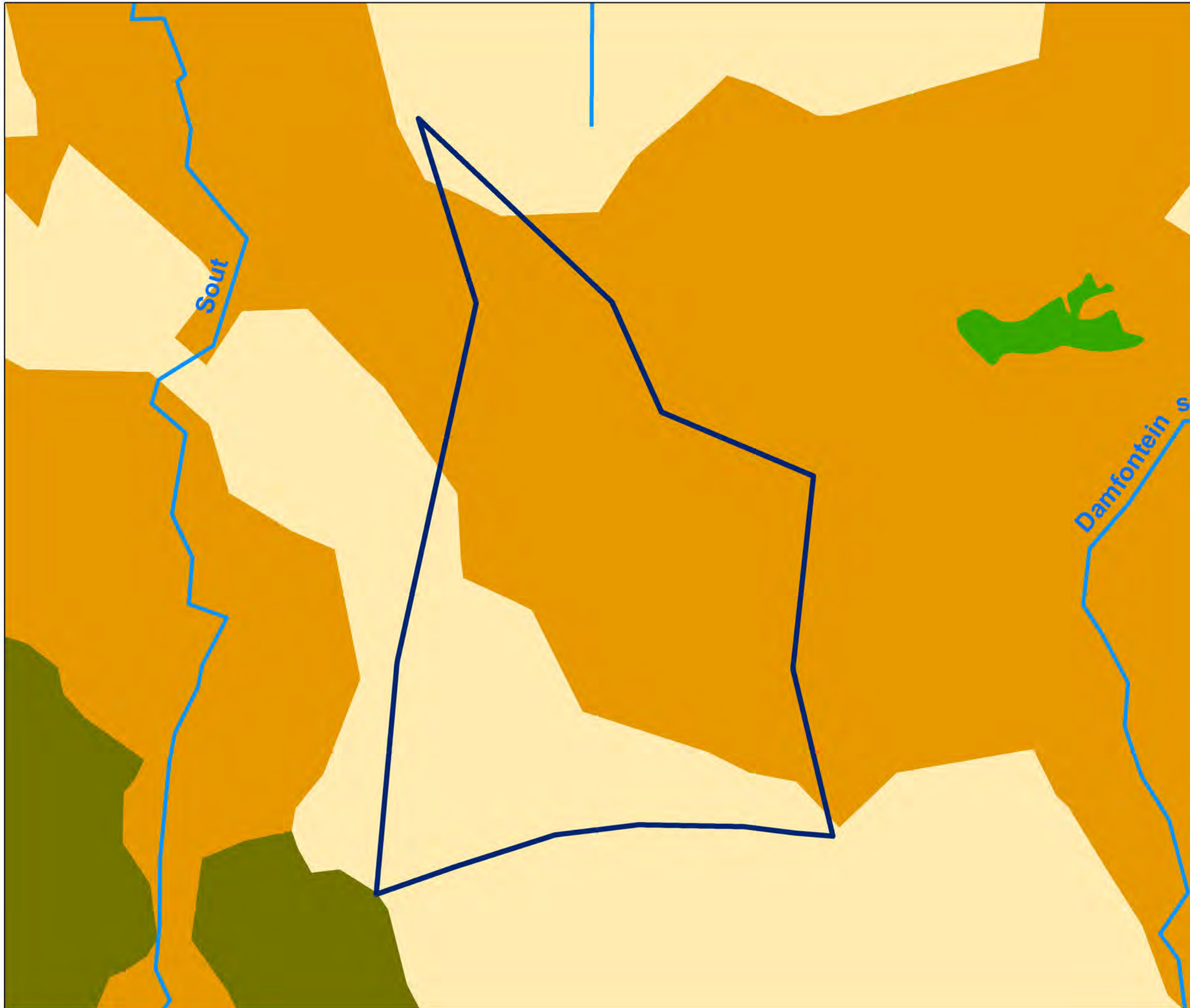
VEGETATION CLASSIFICATION

Legend

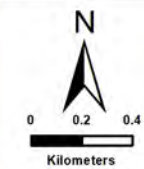
-  Rivers
-  Klipkraal Phase 1 WEF Site

Vegetation Classification

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



Source:
NFEPA 2011
SANBI 2018



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