



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





WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE

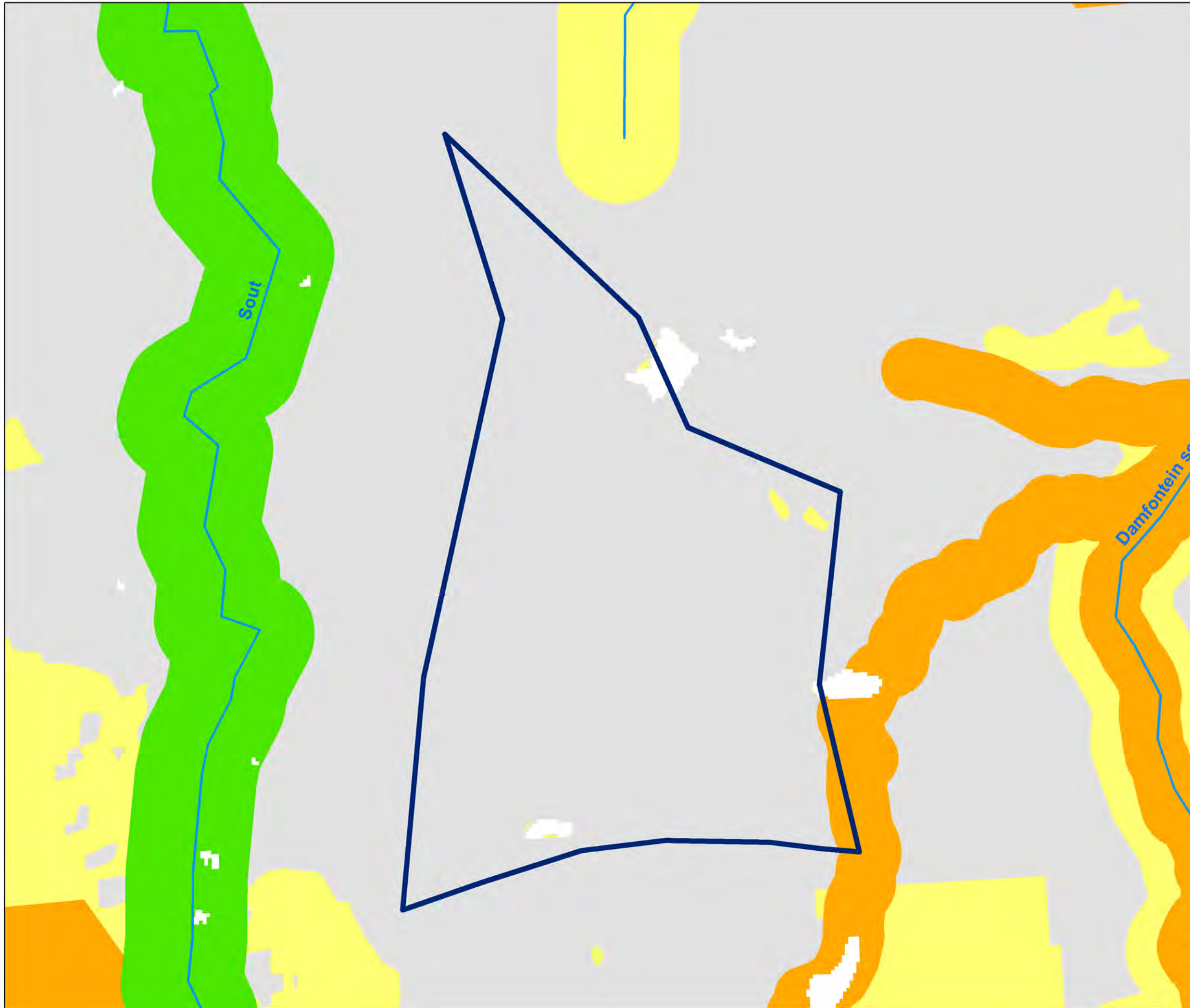
CRITICAL BIODIVERSITY AREAS

Legend

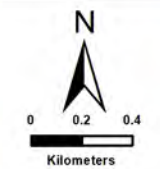
-  Rivers
-  Klipkraal Phase 1 WEF Site

CBA Classification

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



Source:
NFEPA 2011
NORTHERN CAPE BIODIVERSITY SPATIAL PLAN 2017



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Map Ref No 16891	Revision 0	Date

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




















WITHIN THE
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BROAD LANDCOVER CLASSIFICATION

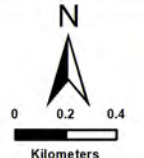
Legend

-  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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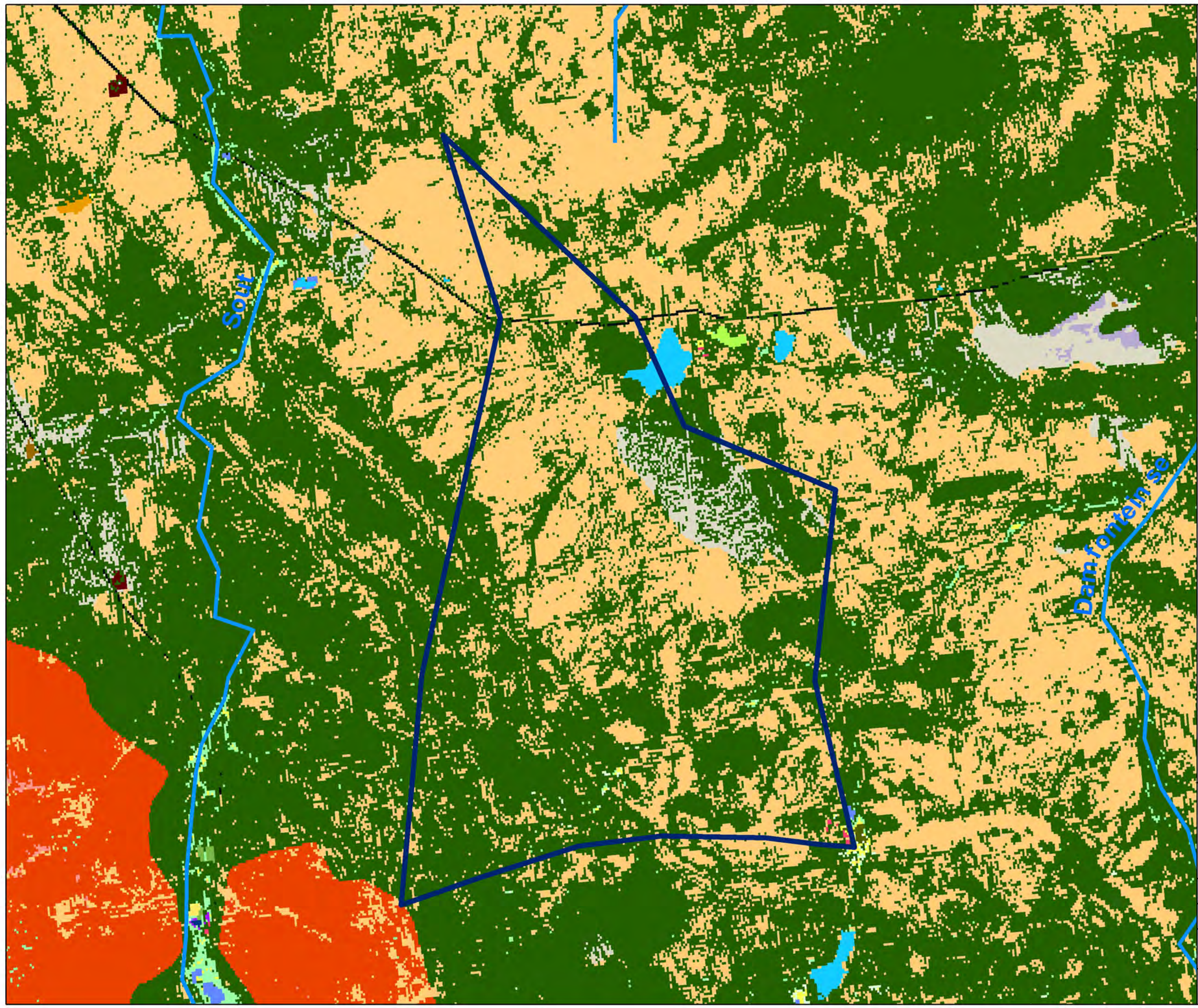
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
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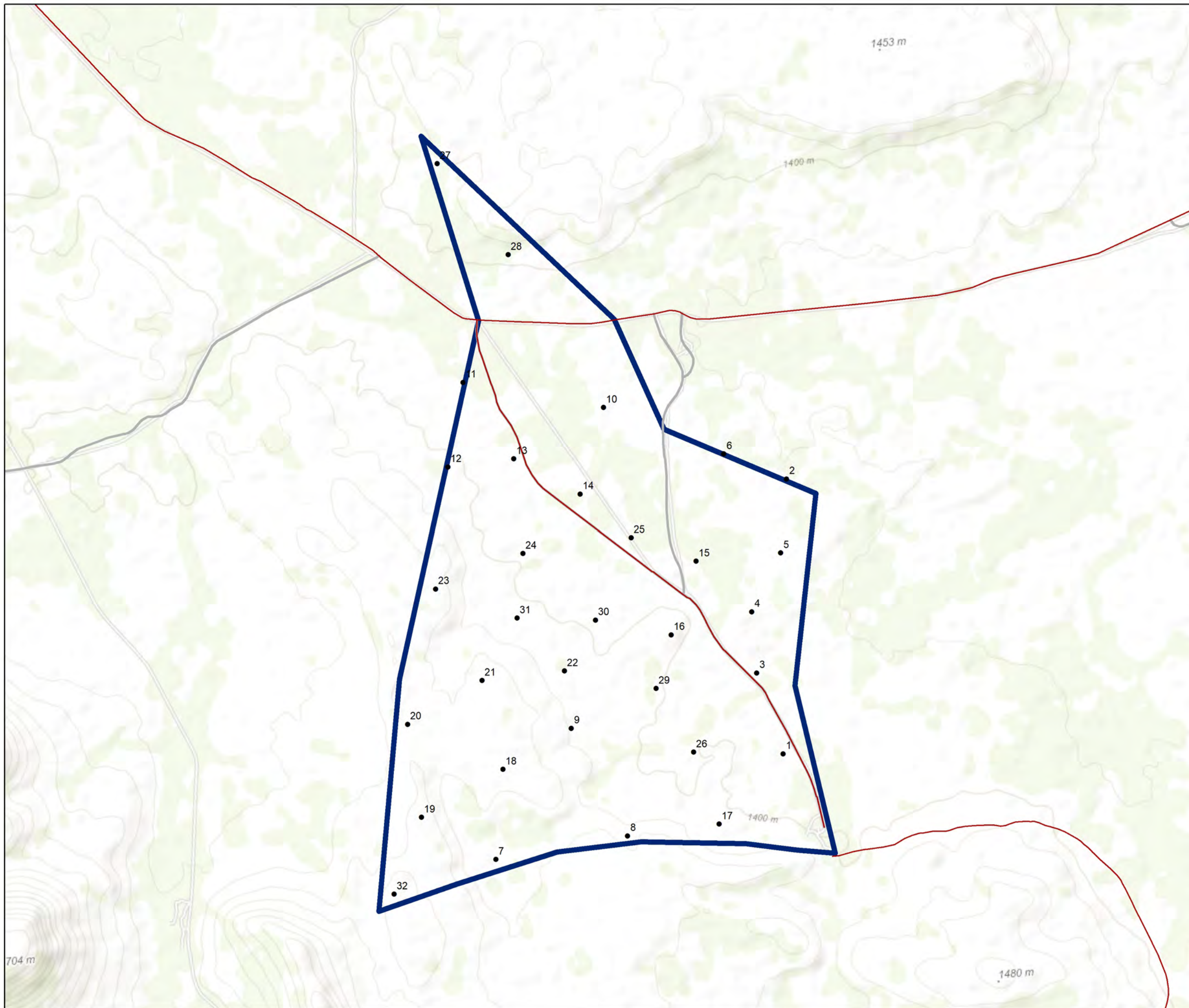
PRELIMINARY LAYOUT

Legend

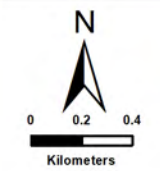
-  Local Access
-  Secondary Roads (Existing)
-  Klipkraal Phase 1 WEF Site

Proposed WEF Components

-  Preliminary Turbine Locations



Source:
NGI, 2014

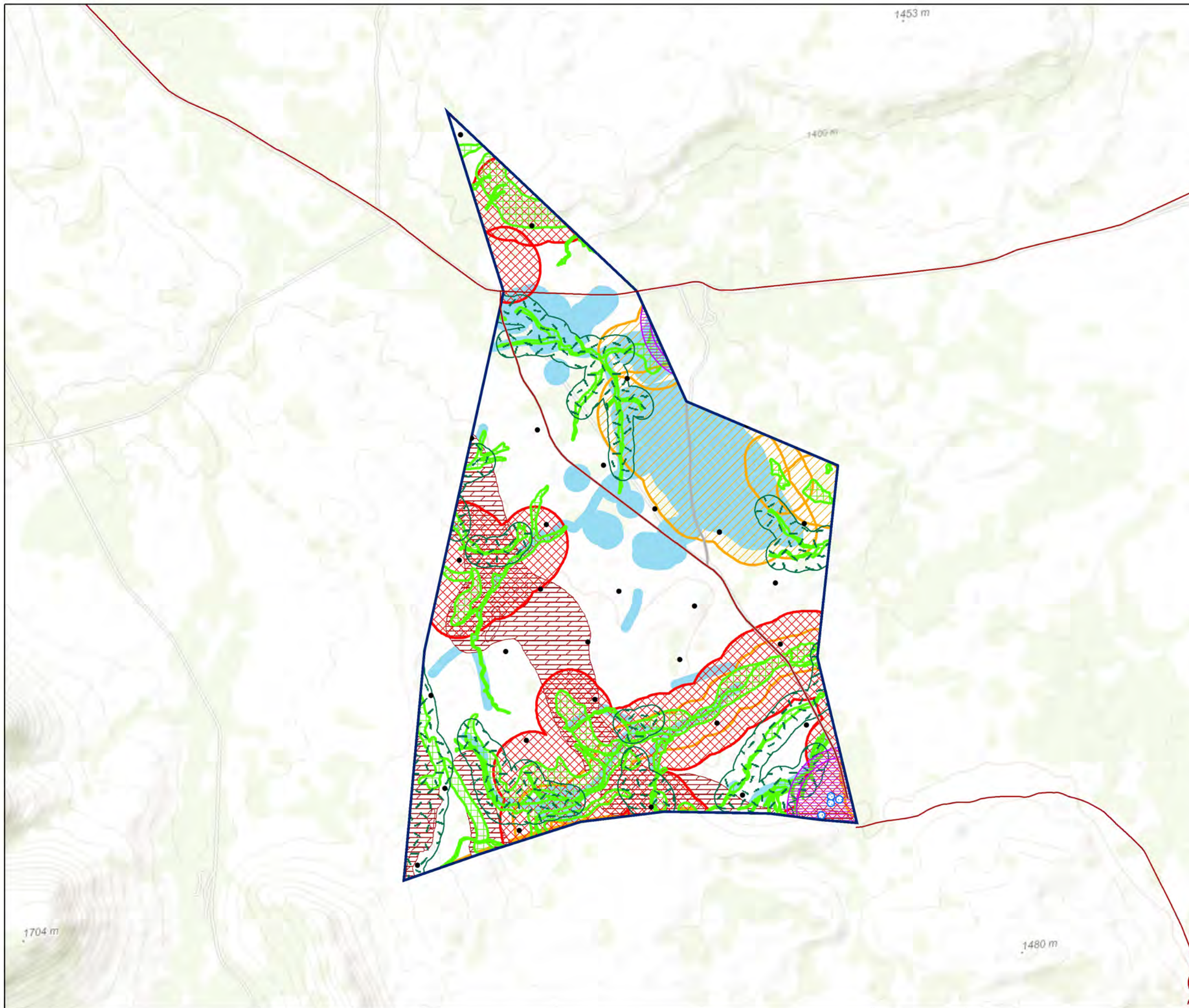


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WITHIN THE
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NORTHERN CAPE PROVINCE

SENSITIVITY LAYOUT

Legend

- Local Access
- Secondary Roads (Existing)
- ▭ Klipkraal Phase 1 WEF Site

Proposed WEF Components

- Preliminary Turbine Locations

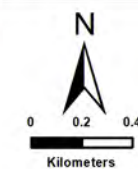
Environmental Sensivities (No-Go)

- ▭ Aquatic Features
- ▭ Avifaunal Sensitivity
- ▭ Bat Sensitivity
- ▭ Heritage Sensitivity
- ▭ Noise Sensitivity
- ▭ Terrestrial Sensitivity

Environmental Sensivities (minor encroachment allowed)

- ▭ Bat Medium Sensitivity
- ▭ Terrestrial High Sensitivity

Source:
NGI, 2014



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NORTHERN CAPE PROVINCE

SENSITIVITY LAYOUT







Legend

-  Local Access
-  Secondary Roads (Existing)
-  Klipkraal Phase 1 WEF Site



Proposed WEF Components

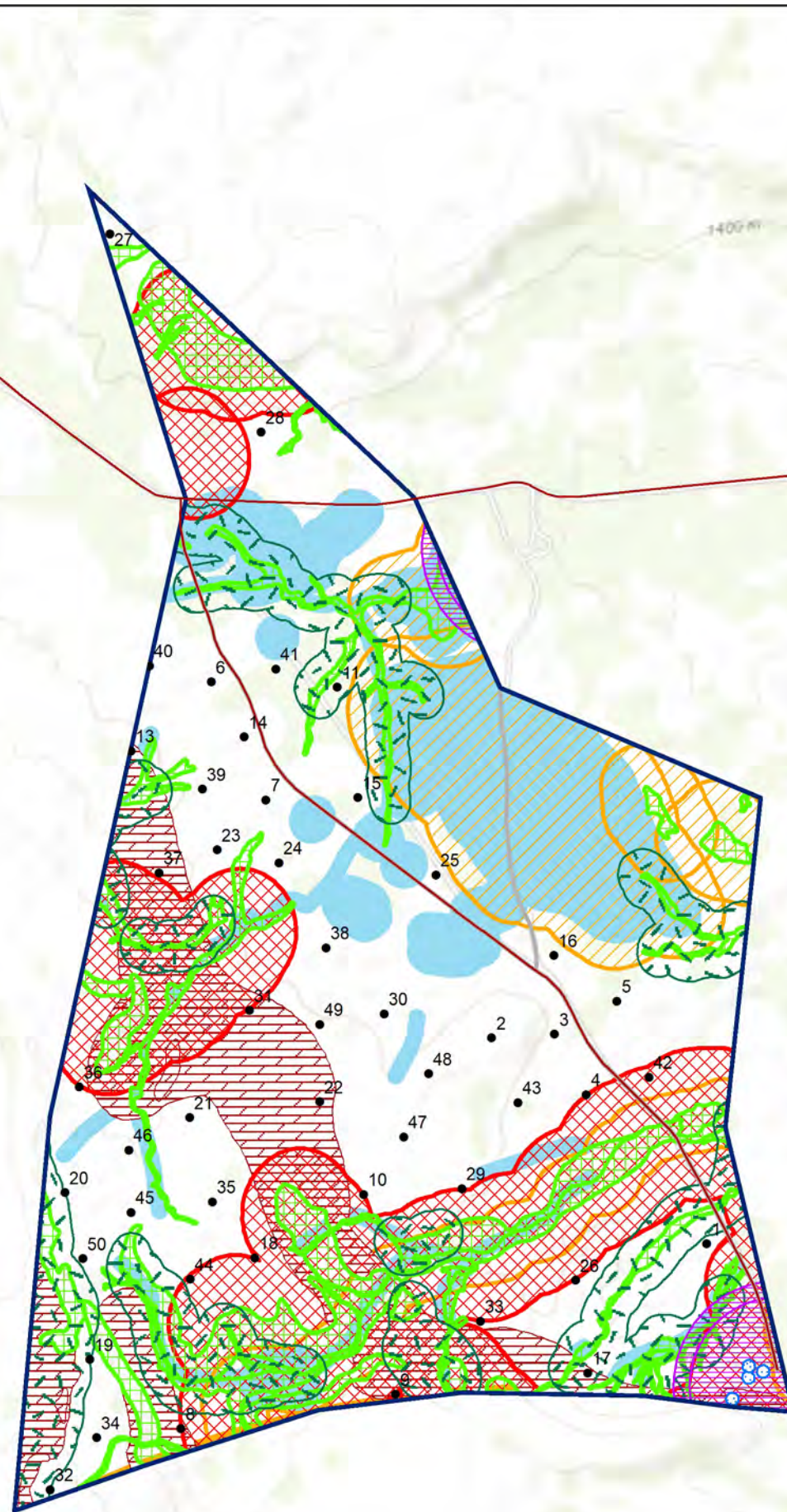
-  Proposed Turbine Locations

Environmental Sensivities (No-Go)

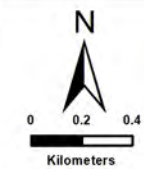
-  Aquatic Features
-  Avifaunal Sensitivity
-  Bat Sensitivity
-  Heritage Sensitivity
-  Noise Sensitivity
-  Terrestrial Sensitivity

Environmental Sensivities (minor encroachment allowed)

-  Bat Medium Sensitivity
-  Terrestrial High Sensitivity



Source:
NGI, 2014



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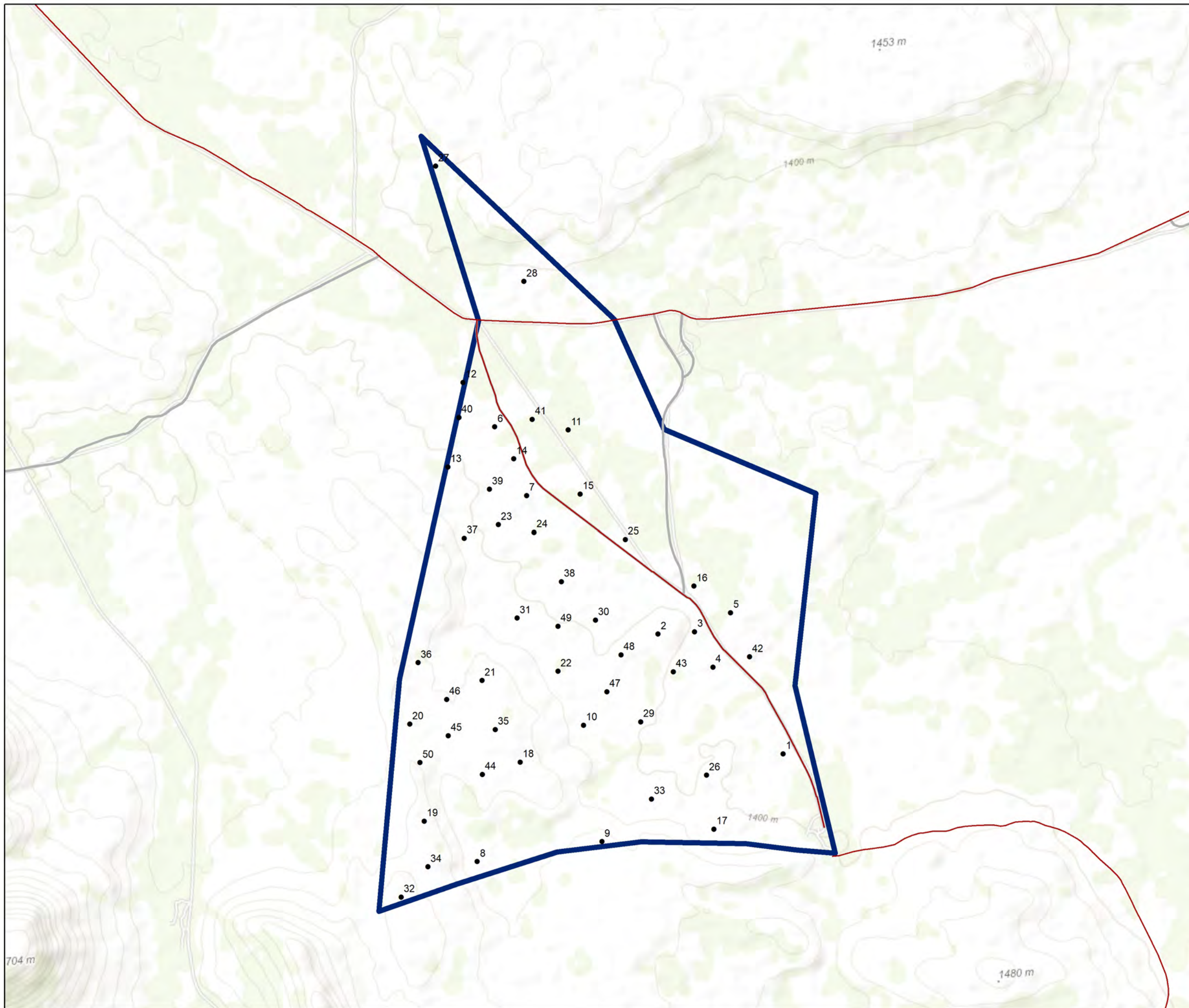
PROPOSED LAYOUT

Legend

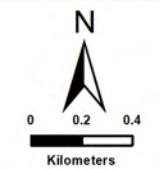
-  Local Access
-  Secondary Roads (Existing)
-  Klipkraal Phase 1 WEF Site

Proposed WEF Components

-  Proposed Turbine Locations



Source:
NGI, 2014



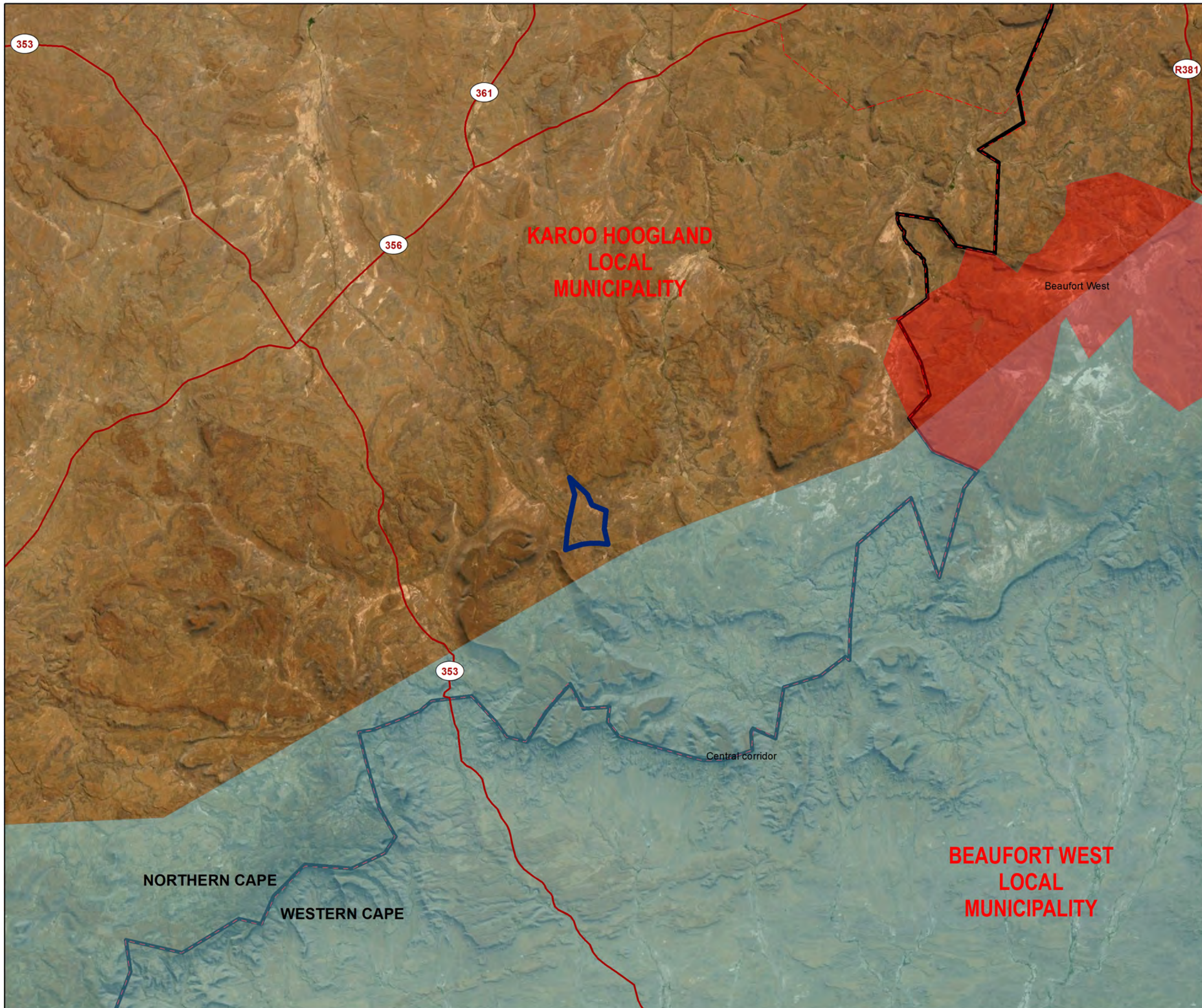
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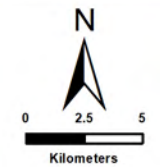


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PHASE 1**
WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
**RENEWABLE ENERGY
DEVELOPMENT ZONES**

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

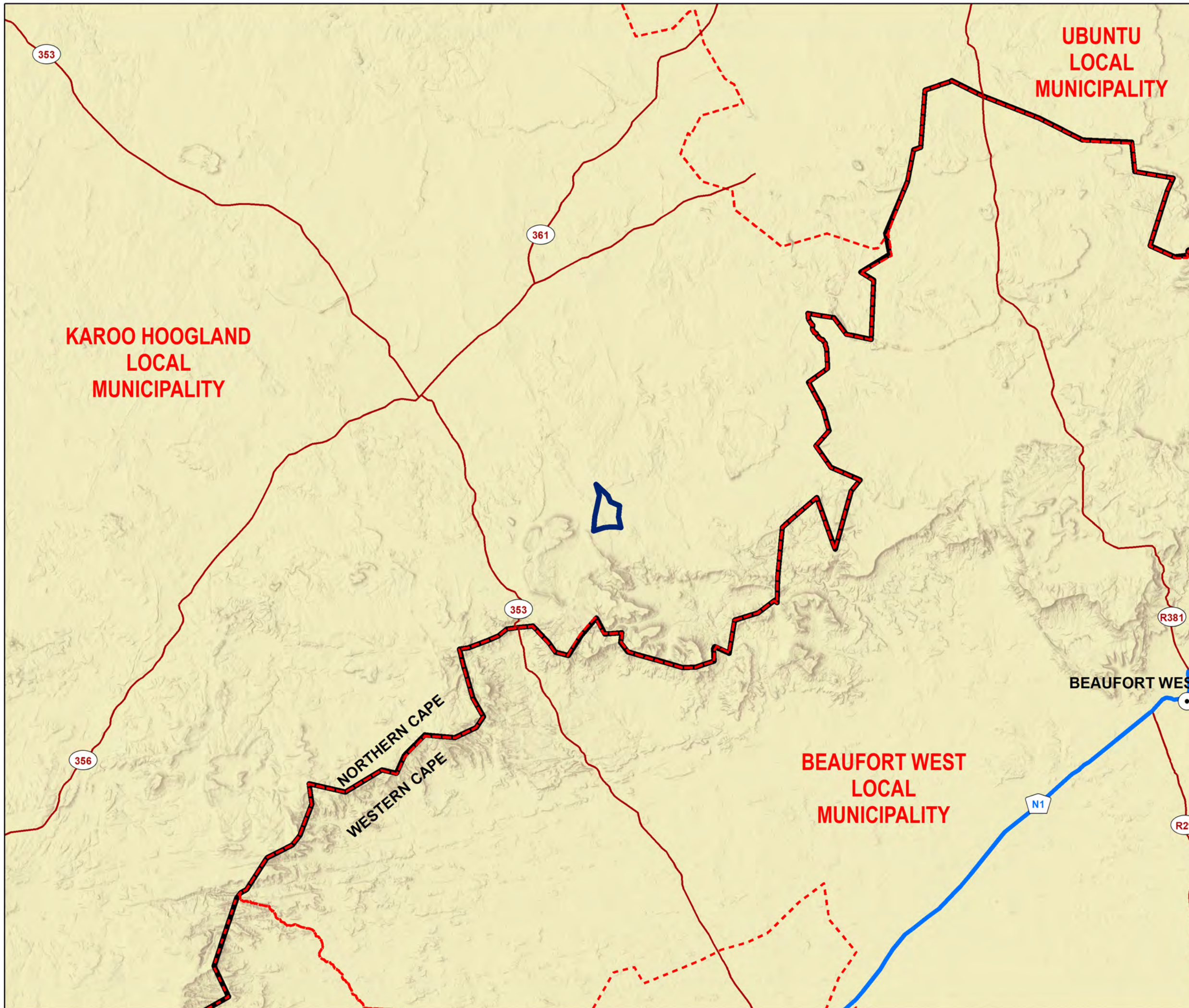


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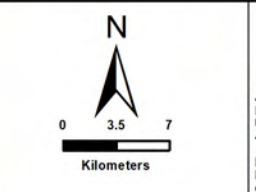
PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 1
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
REGIONAL CONTEXT

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

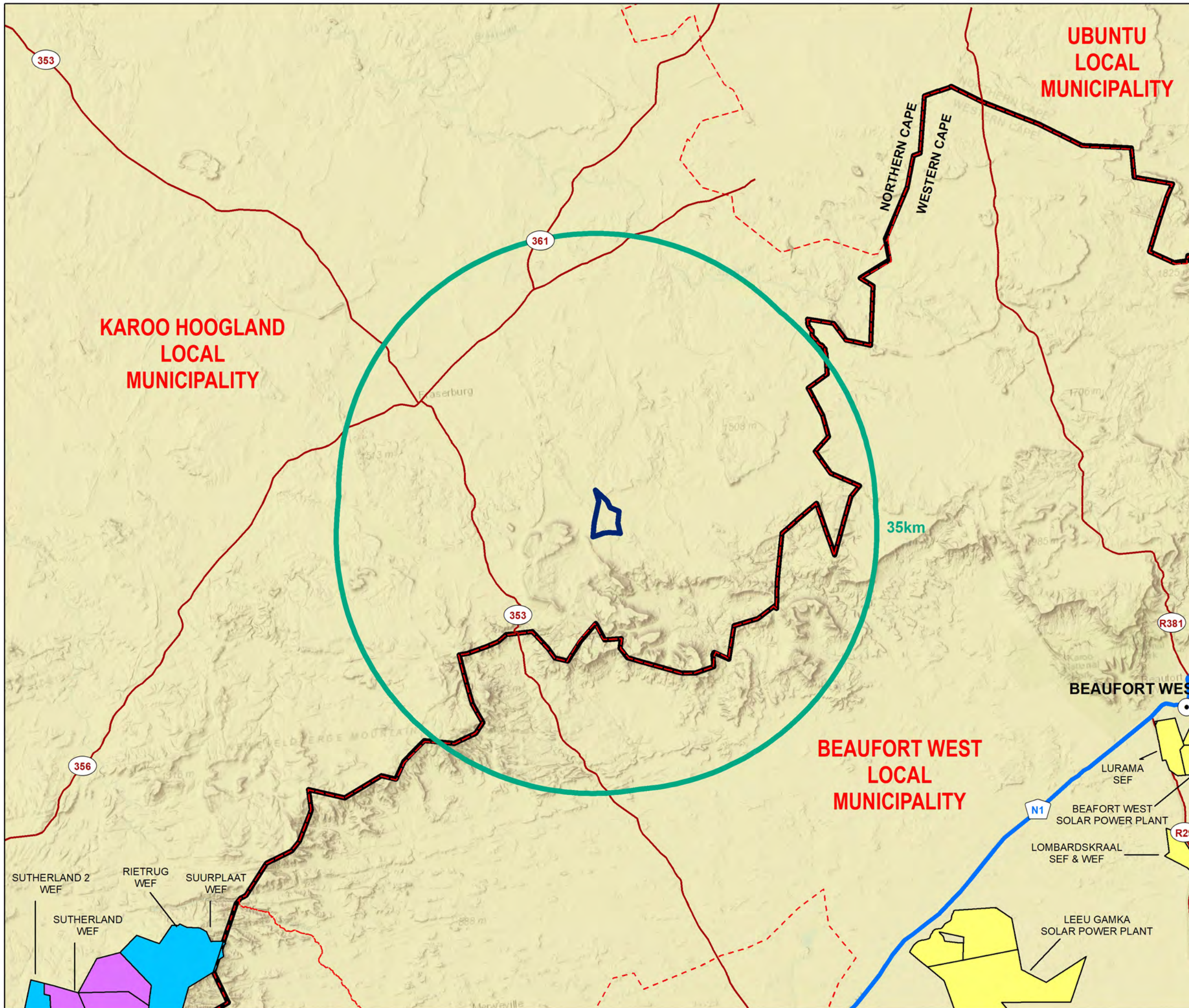


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PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 1
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
RENEWABLE ENERGY PROJECTS (NEW AND PROPOSED)

- 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

0 3.5 7
Kilometers

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SITE LOCALITY

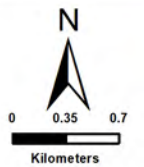
Legend

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

SOUTH AFRICA



Source:
NGI, 2014



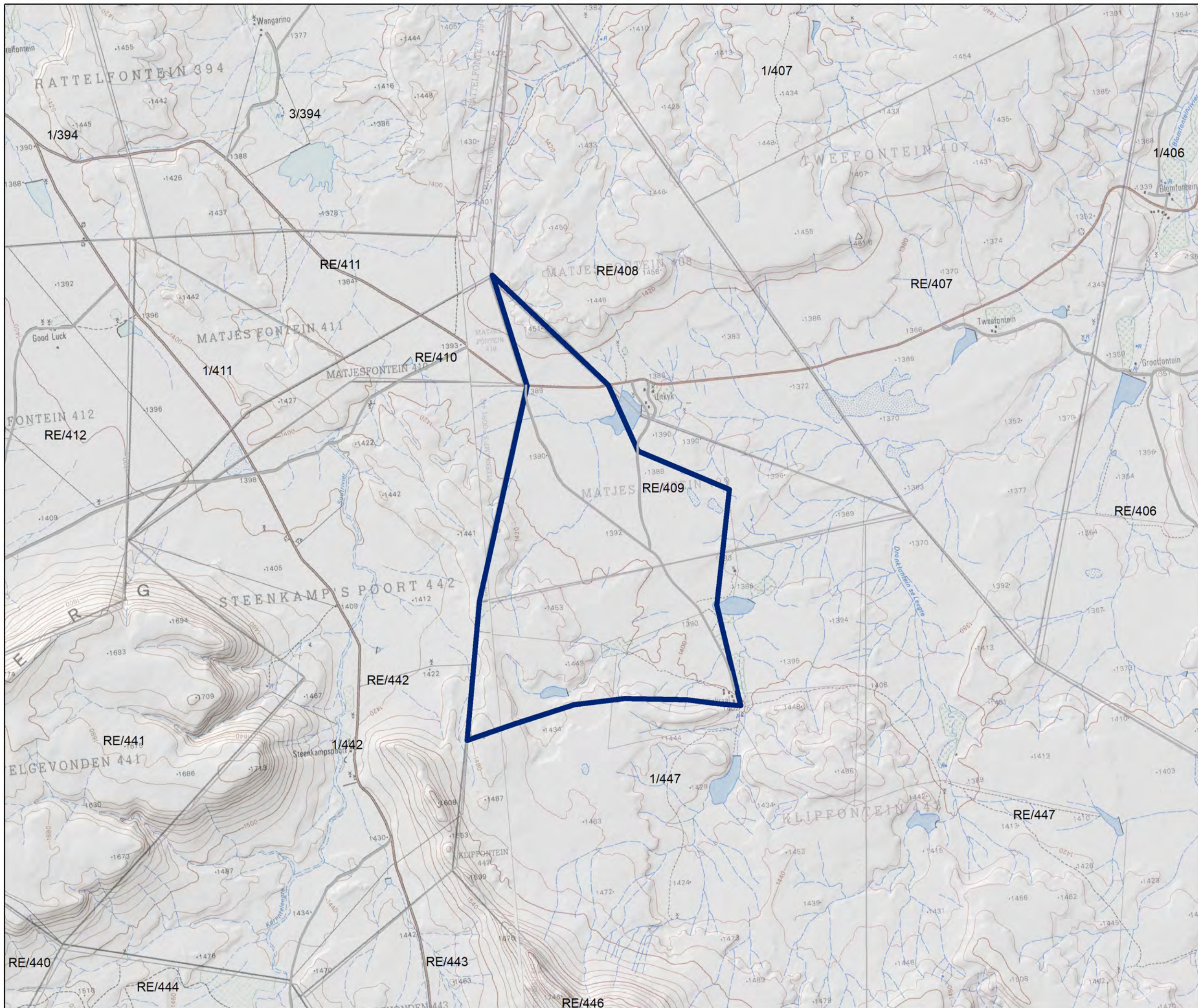
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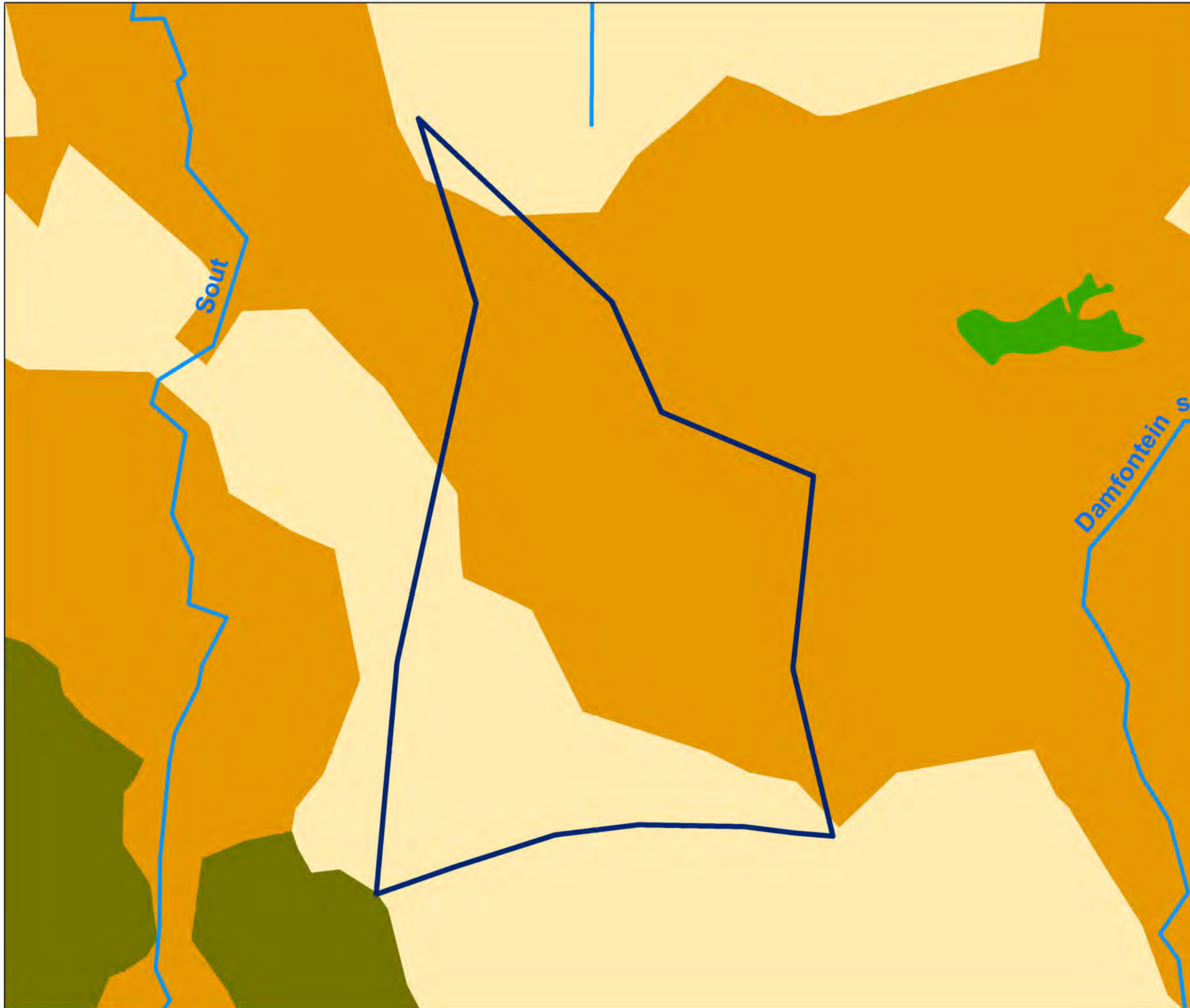
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WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
VEGETATION CLASSIFICATION

Legend

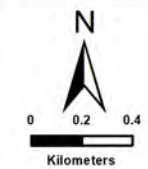
-  Rivers
-  Klipkraal Phase 1 WEF Site

Vegetation Classification

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



Source:
NFEPA 2011
SANBI 2018



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