



**PROPOSED CONSTRUCTION
OF THE KLIPKRAAL
WIND ENERGY FACILITY
PHASE 2**





WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE

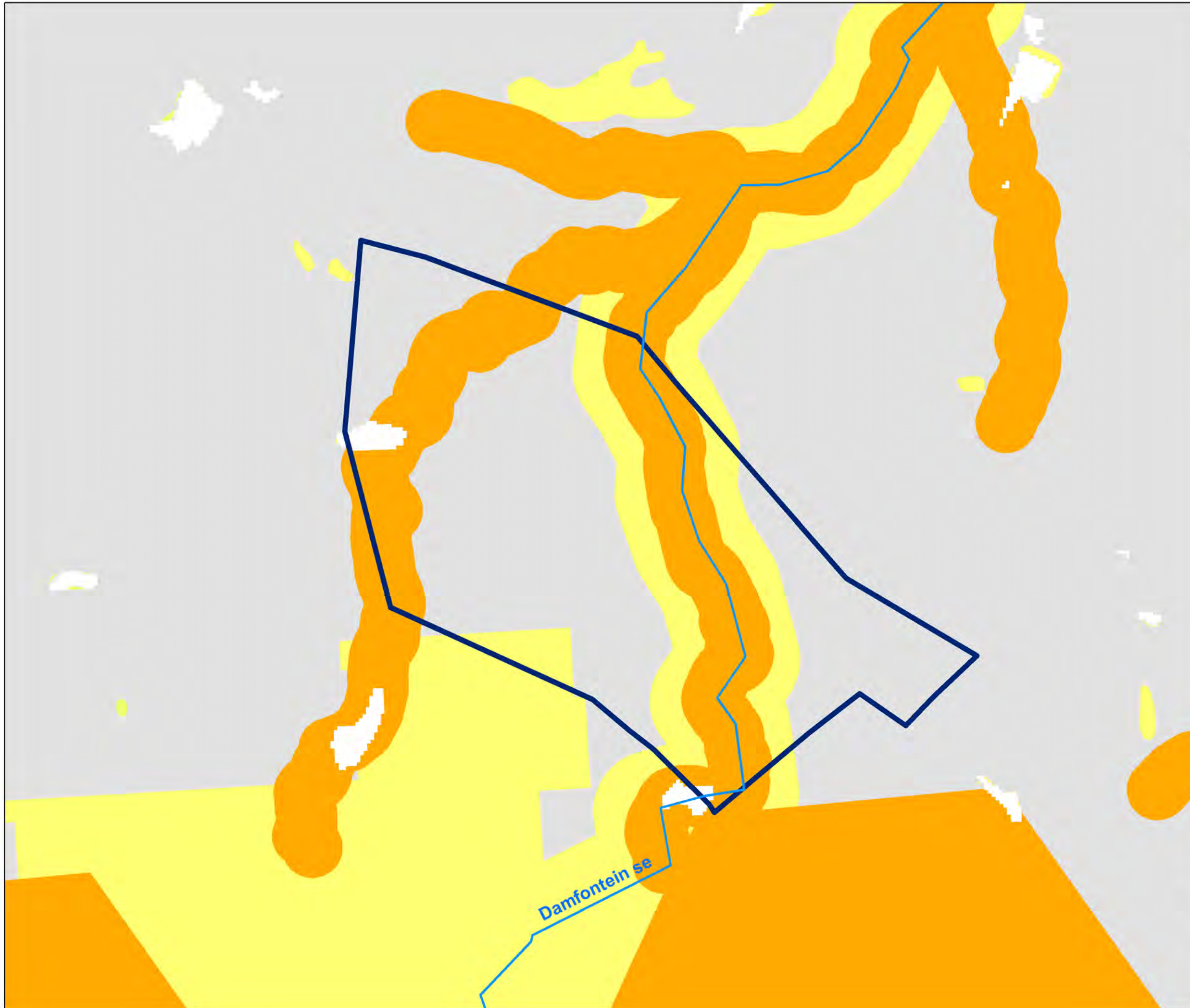
CRITICAL BIODIVERSITY AREAS

Legend

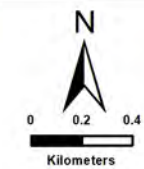
-  Rivers
-  Klipkraal Phase 2 WEF Site

CBA Classification

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



Source:
NFEPA 2011
NORTHERN CAPE BIODIVERSITY SPATIAL PLAN 2017



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













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PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 2
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
BROAD LANDCOVER CLASSIFICATION

Legend

-  Rivers
 -  Klipkraal Phase 2 WEF Site
- Land Cover Classification**
-  Artificial Dams (including canals)
 -  Cultivated Commercial Permanent Orchards
 -  Dense Forest & Woodland
 -  Dry Pans
 -  Herbaceous Wetlands (previously mapped)
 -  Low Shrubland (Fynbos)
 -  Low Shrubland (Nama Karoo)
 -  Low Shrubland (other)
 -  Natural Grassland
 -  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)

 0 0.2 0.4 Kilometers	 ENVIRONMENTAL DIVISION 4 PENCARROW CRESCENT LA LUCIA RIDGE OFFICE ESTATE UMHLANGA ROCKS 4320 Phone: +27 31 581 1500 Fax: +27 31 581 2371 e-mail: info@sivest.co.za
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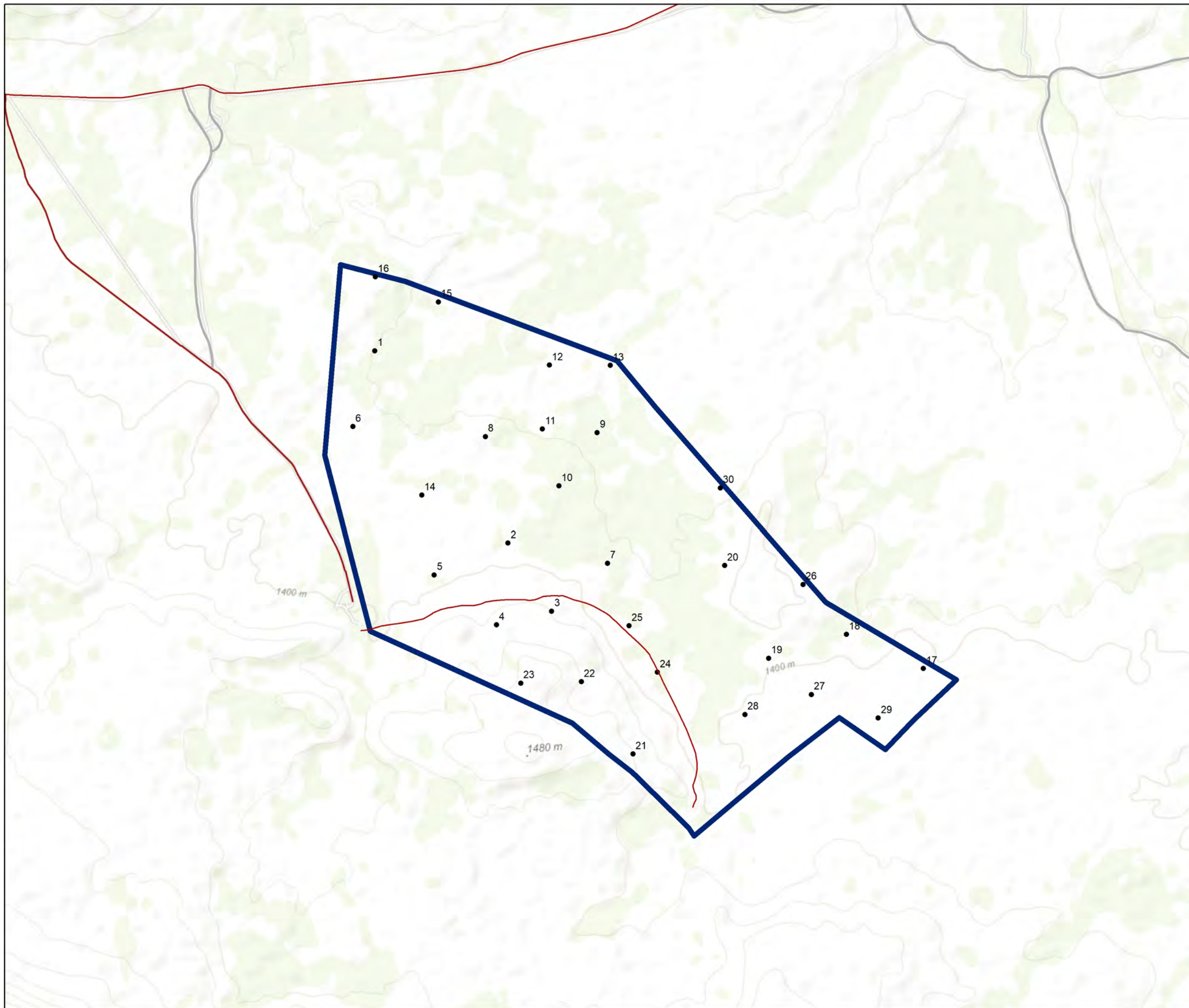
PRELIMINARY LAYOUT

Legend

-  Local Access
-  Secondary Roads (Existing)
-  Klipkraal Phase 2 WEF Site

Proposed WEF Components

-  Preliminary Turbine Locations



Source:
NGI, 2014



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WIND ENERGY FACILITY
PHASE 2**

WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE

SENSITIVITY LAYOUT

Legend

- Local Access
- Secondary Roads (Existing)
- Klipkraal Phase 2 WEF Site

Proposed WEF Components

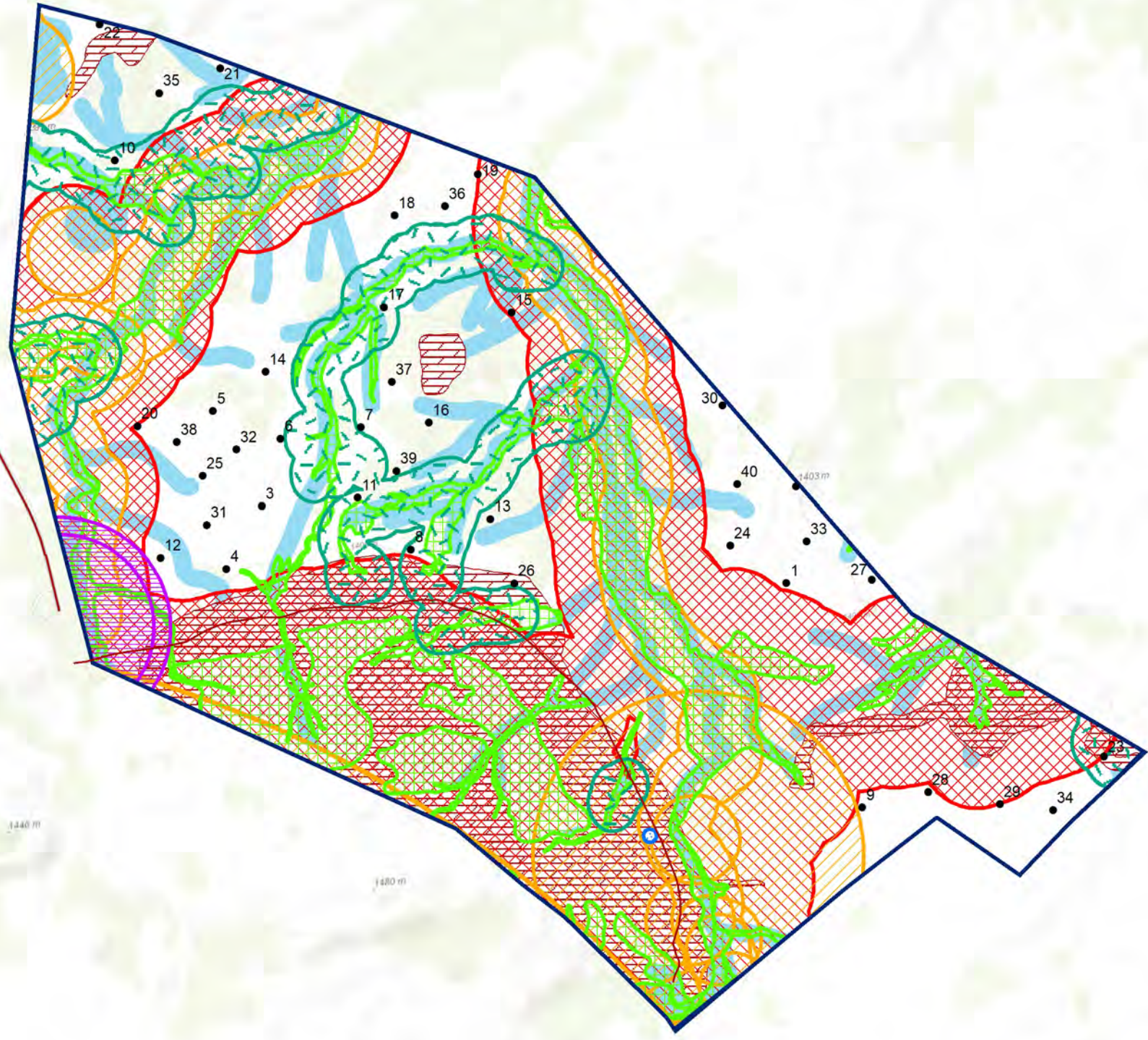
- Proposed Turbine Locations

Environmental Sensivities (No-Go)

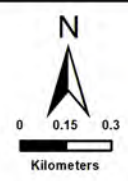
- Aquatic Features
- Avifaunal Sensitivity
- Bat Sensitivity
- Heritage Sensitivity
- Noise Sensitivity
- Terrestrial Sensitivity

Environmental Sensivities (minor encroachment allowed)

- Bat Medium Sensitivity
- Terrestrial High Sensitivity



Source:
NGI, 2014



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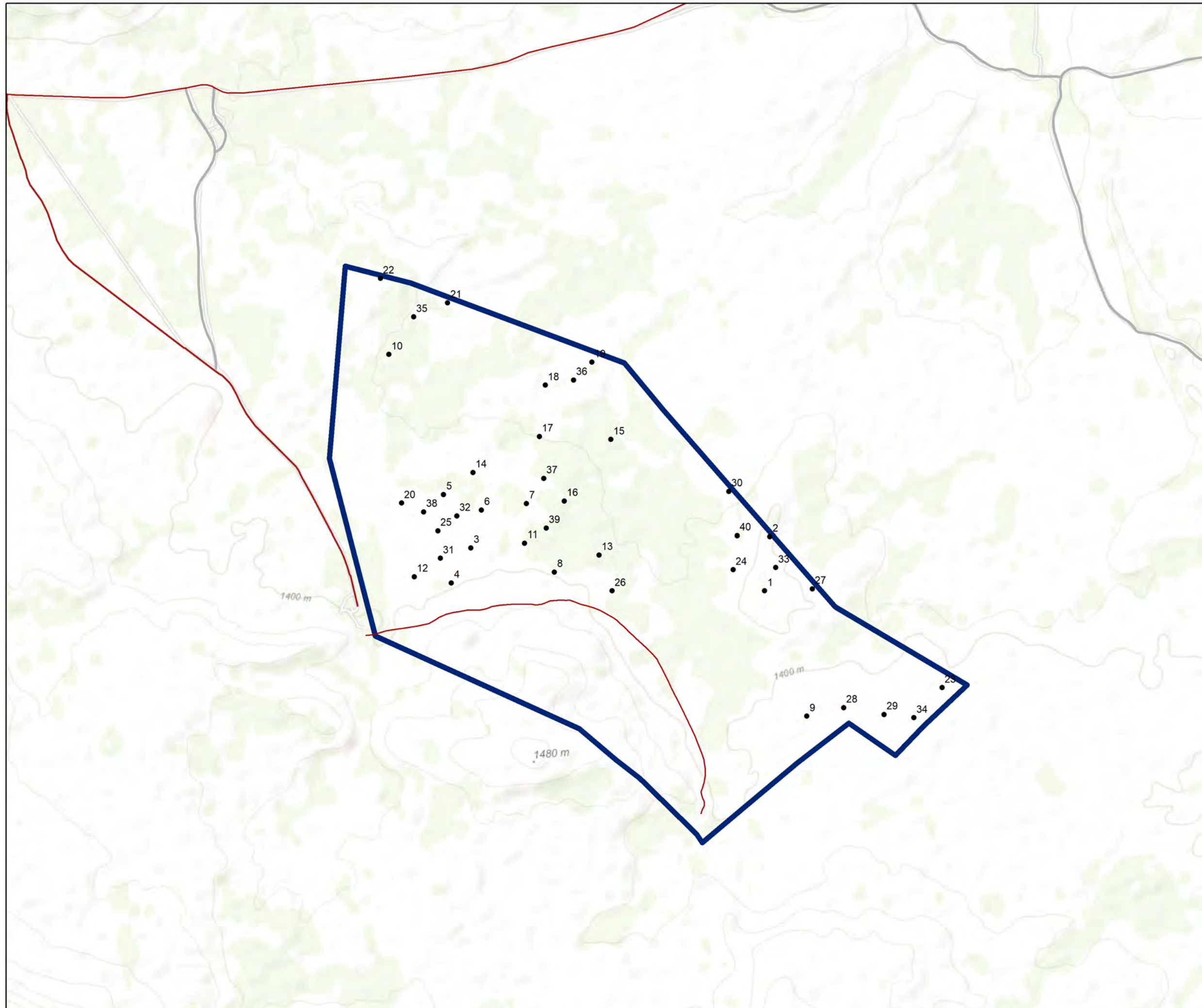
PROPOSED LAYOUT

Legend

- Local Access
- Secondary Roads (Existing)
- Klipkraal Phase 2 WEF Site

Proposed WEF Components

- Proposed Turbine Locations



Source:
NGI, 2014



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WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE

SENSITIVITY LAYOUT

Legend

- Local Access
- Secondary Roads (Existing)
- Klipkraal Phase 2 WEF Site

Proposed WEF Components

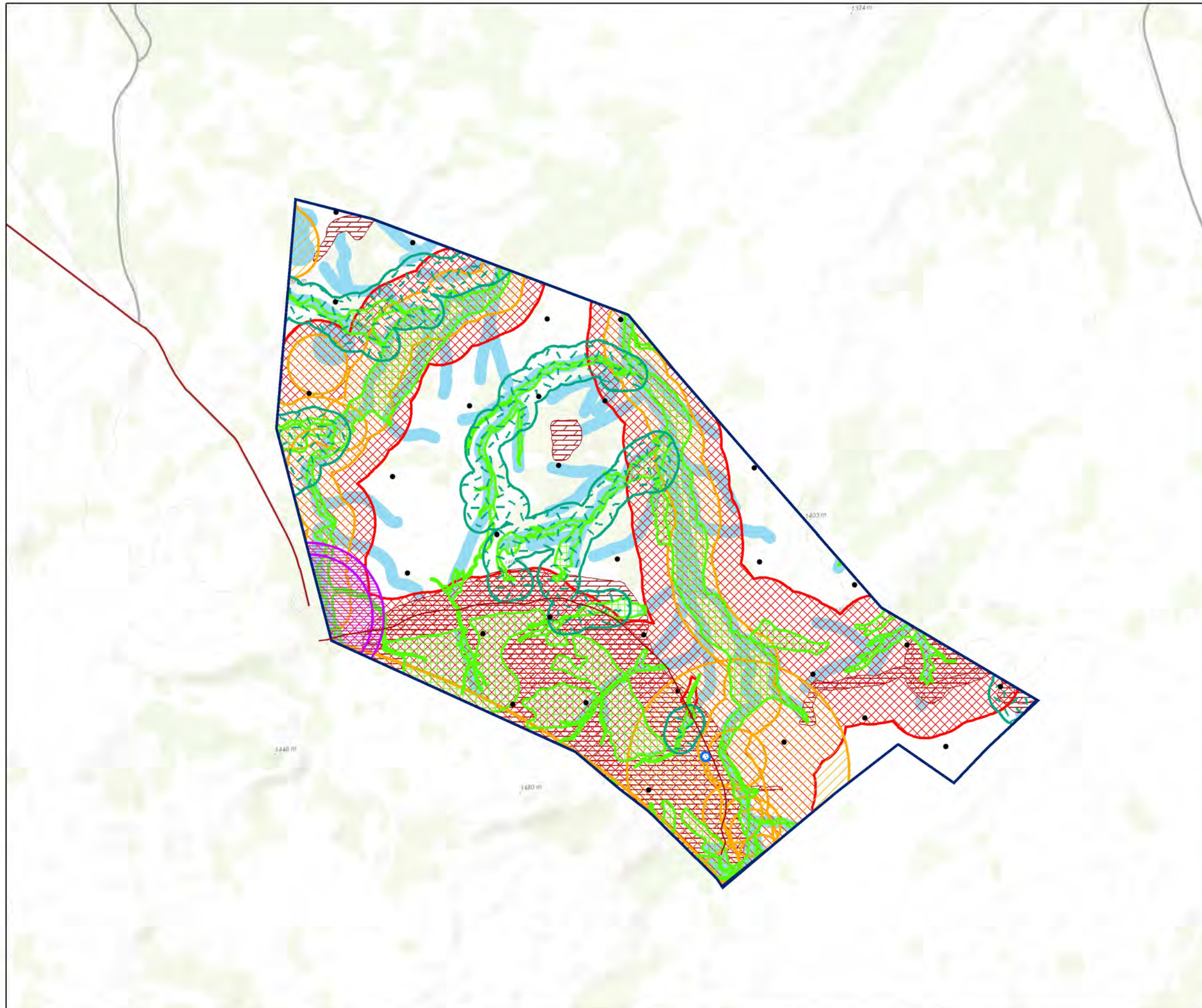
- Preliminary Turbine Locations

Environmental Sensivities (No-Go)

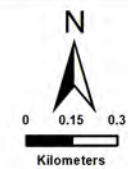
- Aquatic Features
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- Noise Sensitivity
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- Bat Medium Sensitivity
- Terrestrial High Sensitivity



Source:
NGI, 2014

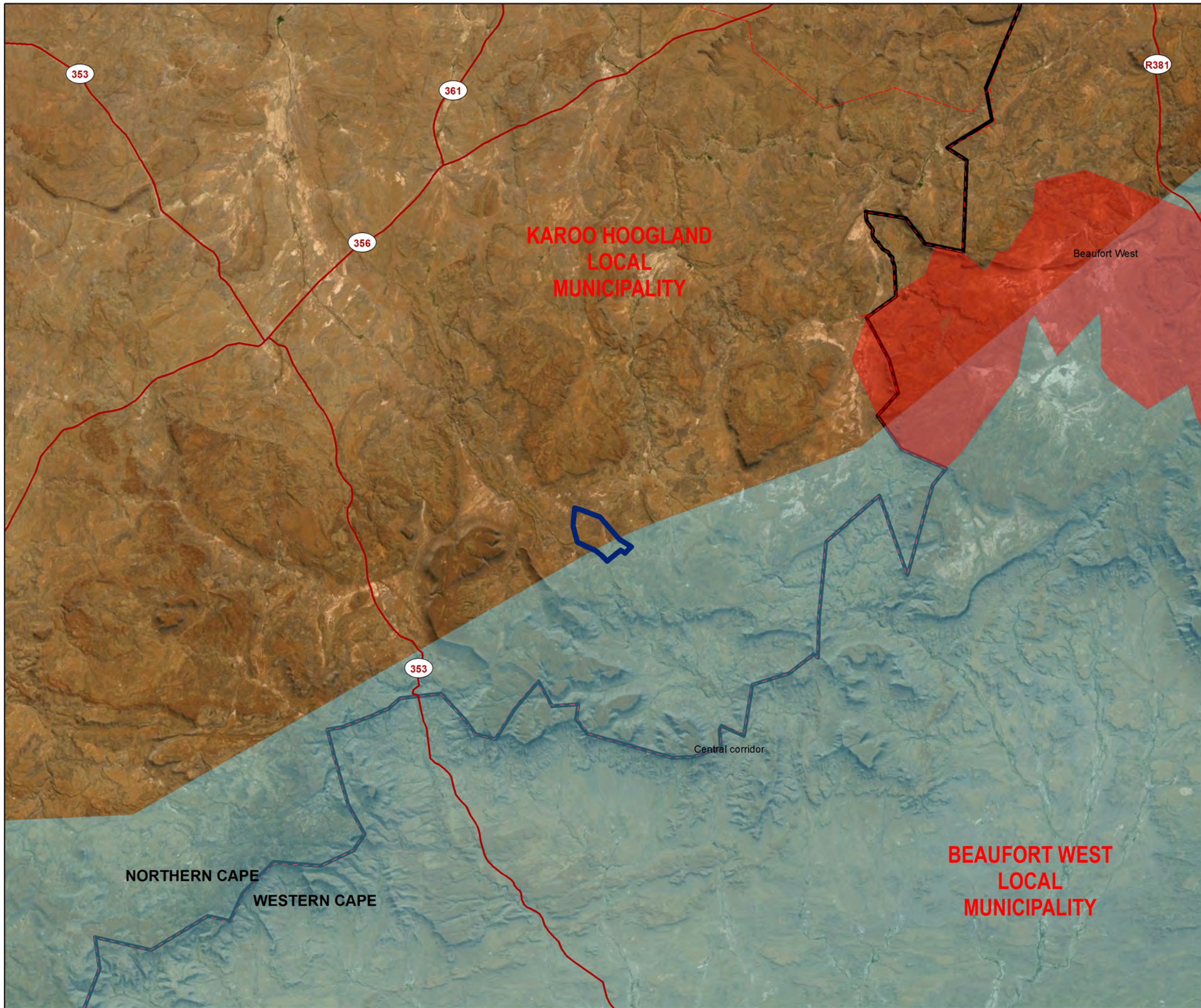


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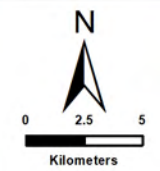


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PHASE 2**
WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
**RENEWABLE ENERGY
DEVELOPMENT ZONES**

Legend

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

Source:
NGI, 2014
MUNICIPAL DERMACATION BOARD, 2016

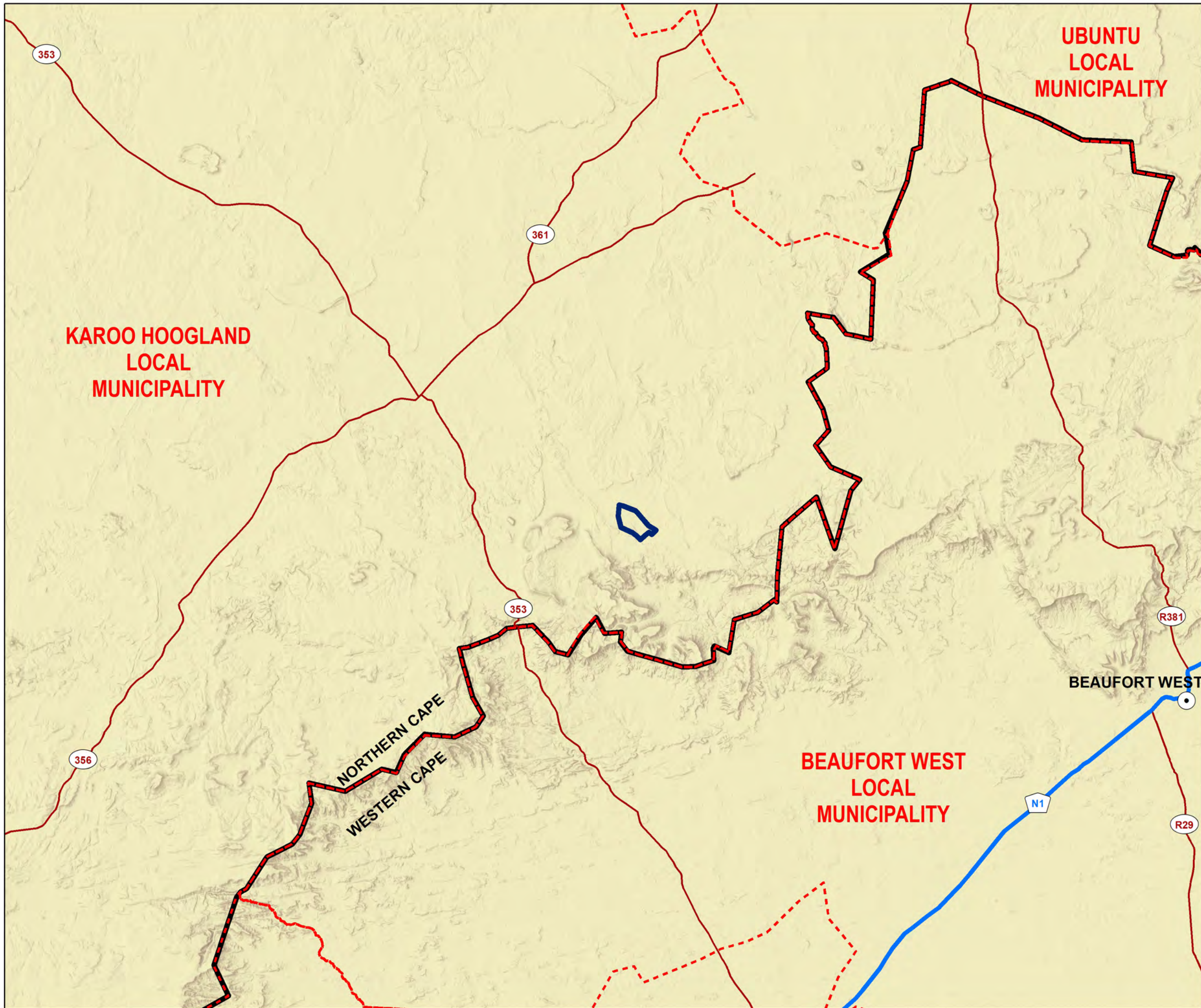


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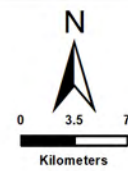
PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 2
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
REGIONAL CONTEXT

Legend

- Main Towns
- National Route
- Main Arterial Routes
- Local Municipal Boundaries
- Provincial Boundary
- Klipkraal Phase 2 WEF Site



Source:
 NGI, 2014
 MUNICIPAL DERMACATION BOARD, 2016

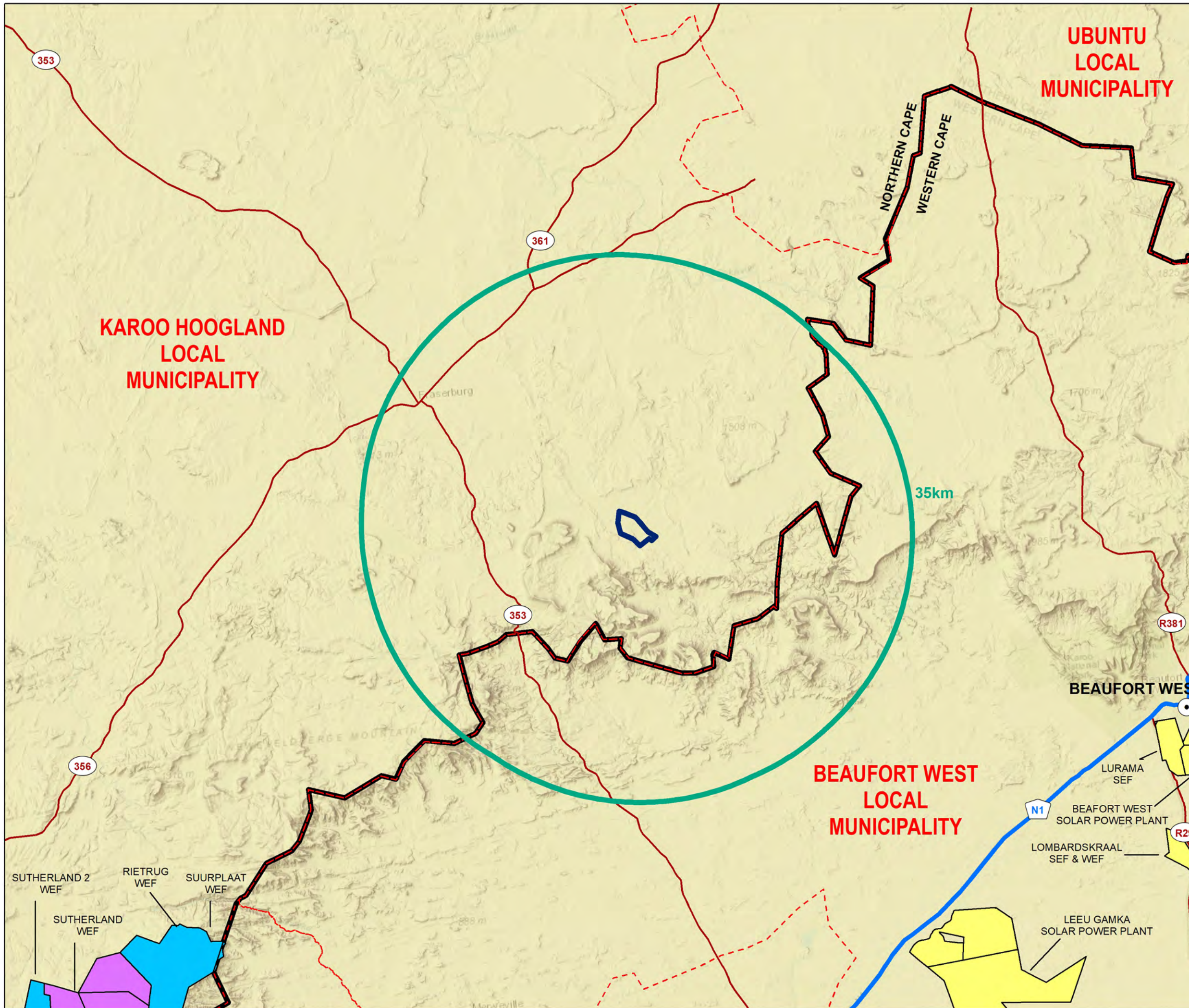


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 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
RENEWABLE ENERGY PROJECTS (NEW AND PROPOSED)

- Legend**
- Main Towns
 - National Route
 - Main Arterial Routes
 - Local Municipal Boundaries
 - Provincial Boundary
 - Klipkraal Phase 2 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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WITHIN THE
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SITE LOCALITY

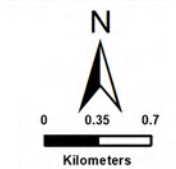
Legend

-  Local Access
-  Farm Portions
-  Klipkraal Phase 2 WEF Site

SOUTH AFRICA



Source:
NGI, 2014

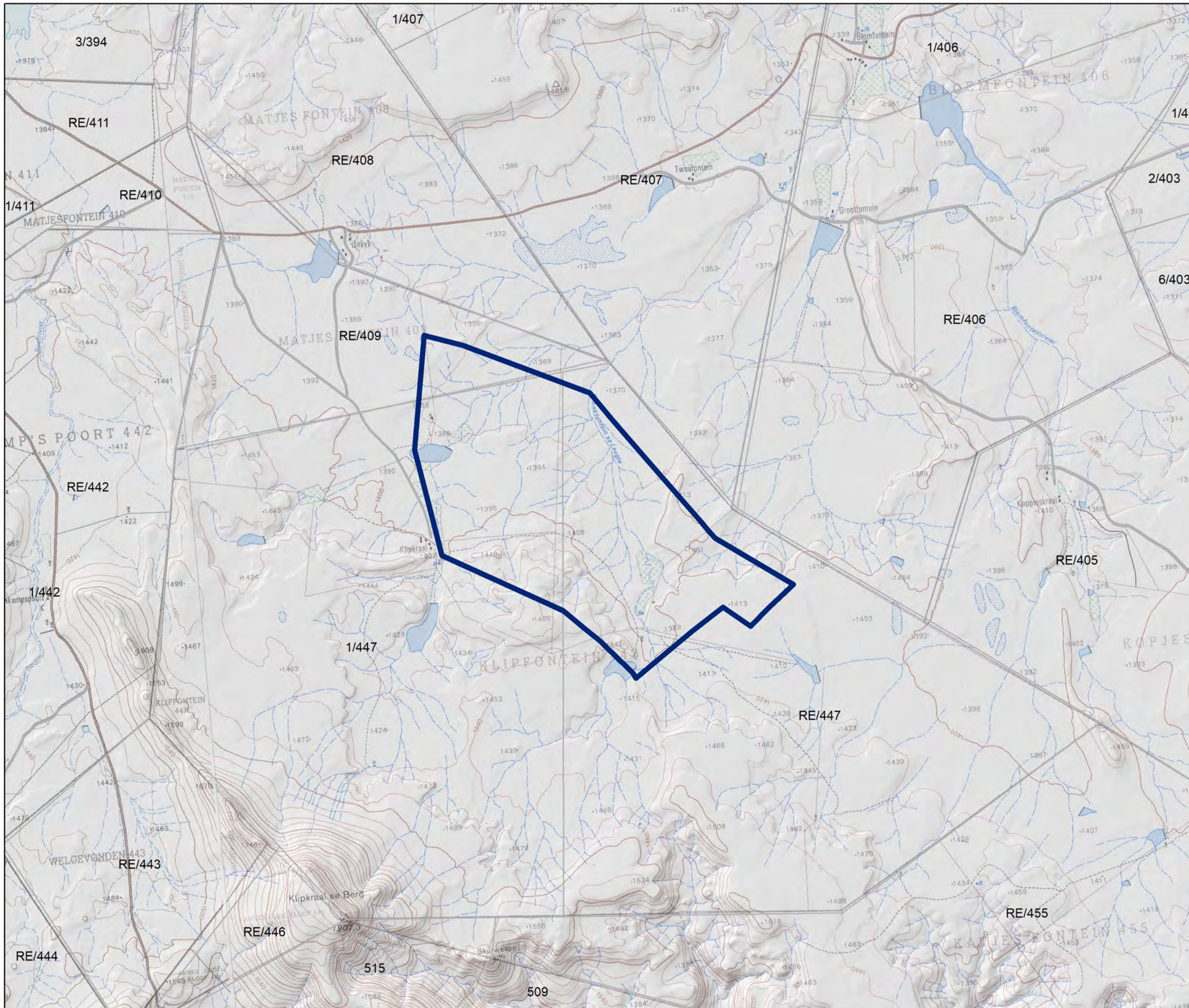


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VEGETATION CLASSIFICATION

Legend

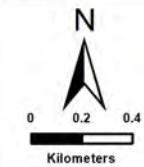
-  Rivers
-  Klipkraal Phase 2 WEF Site

Vegetation Classification

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



Source:
NFEPA 2011
SANBI 2018



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