

**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
CONSOLIDATED MAP**

Legend

- Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)
- Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)
- Pofadder WEF 3 Application Site (29°20'2.14"S; 19°46'45.05"E)

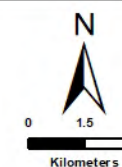
Proposed WEF Components

- Batching Plants
- BESS Facilities
- Operational & Maintenance Buildings
- Site Camps
- Facility Substations
- Turbine Laydown Areas
- Warehouses

Grid Connection Alternatives

- Preferred Alternative
- WEF 1 132kv OH Line
- WEF 2 132kv OH Line
- WEF 3 132kv OH Line

Source:
ESKOM, 2012
NGI, 2014

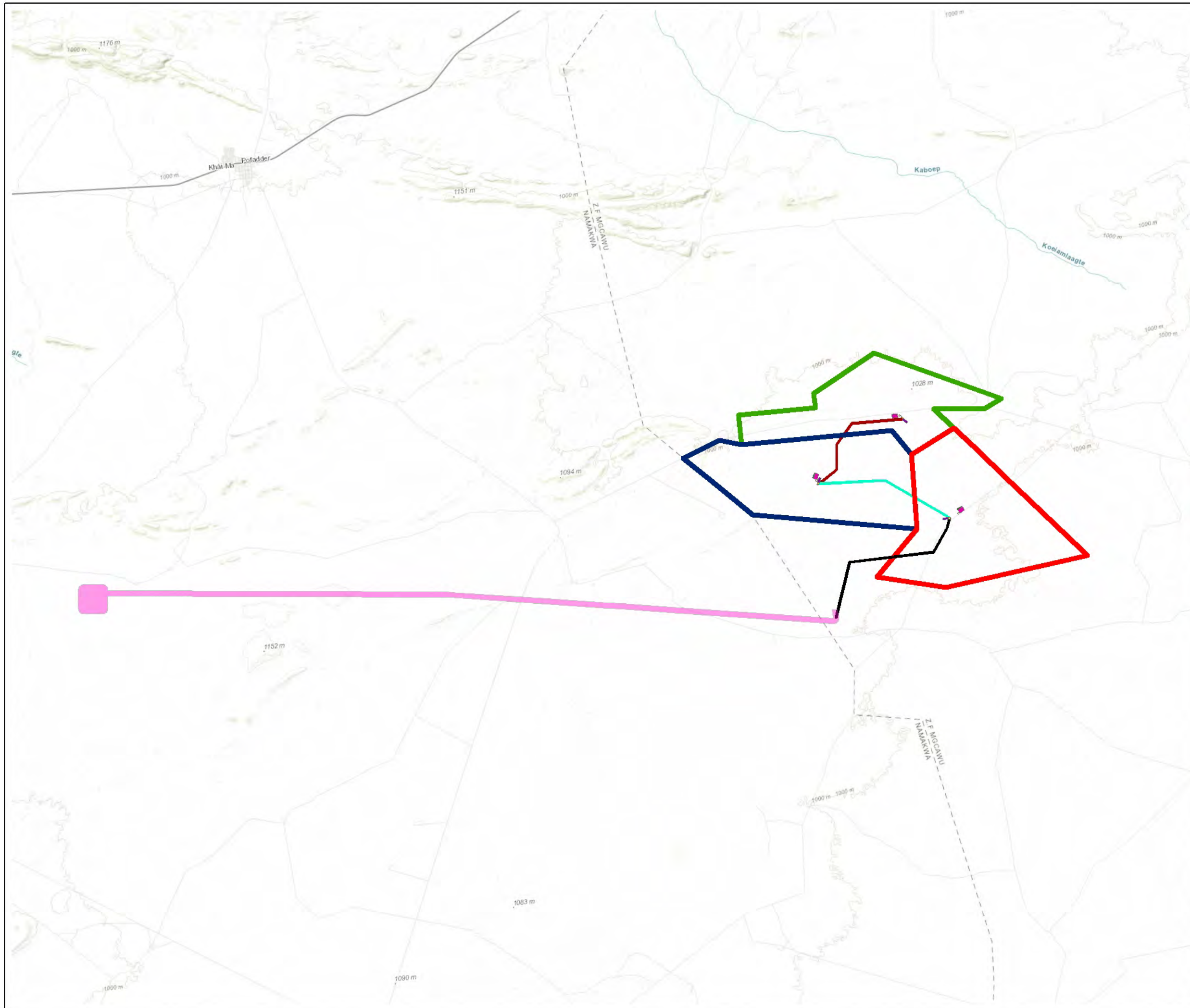


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Map Ref No 16876	Revision 0	Date

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**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
CONSOLIDATED MAP**

Legend

- Phase 1 REDZs
- Power Corridors
- Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)
- Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)
- Pofadder WEF 3 Application Site (29°20'2.14"S; 19°46'45.05"E)

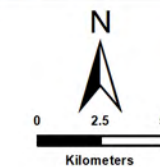
Proposed WEF Components

- Batching Plants
- BESS Facilities
- Operational & Maintenance Buildings
- Site Camps
- Facility Substations
- Turbine Laydown Areas
- Warehouses

Grid Connection Alternatives

- Preferred Alternative
- WEF 1 132kv OH Line
- WEF 2 132kv OH Line
- WEF 3 132kv OH Line

Source:
ESKOM, 2012
NGI, 2014

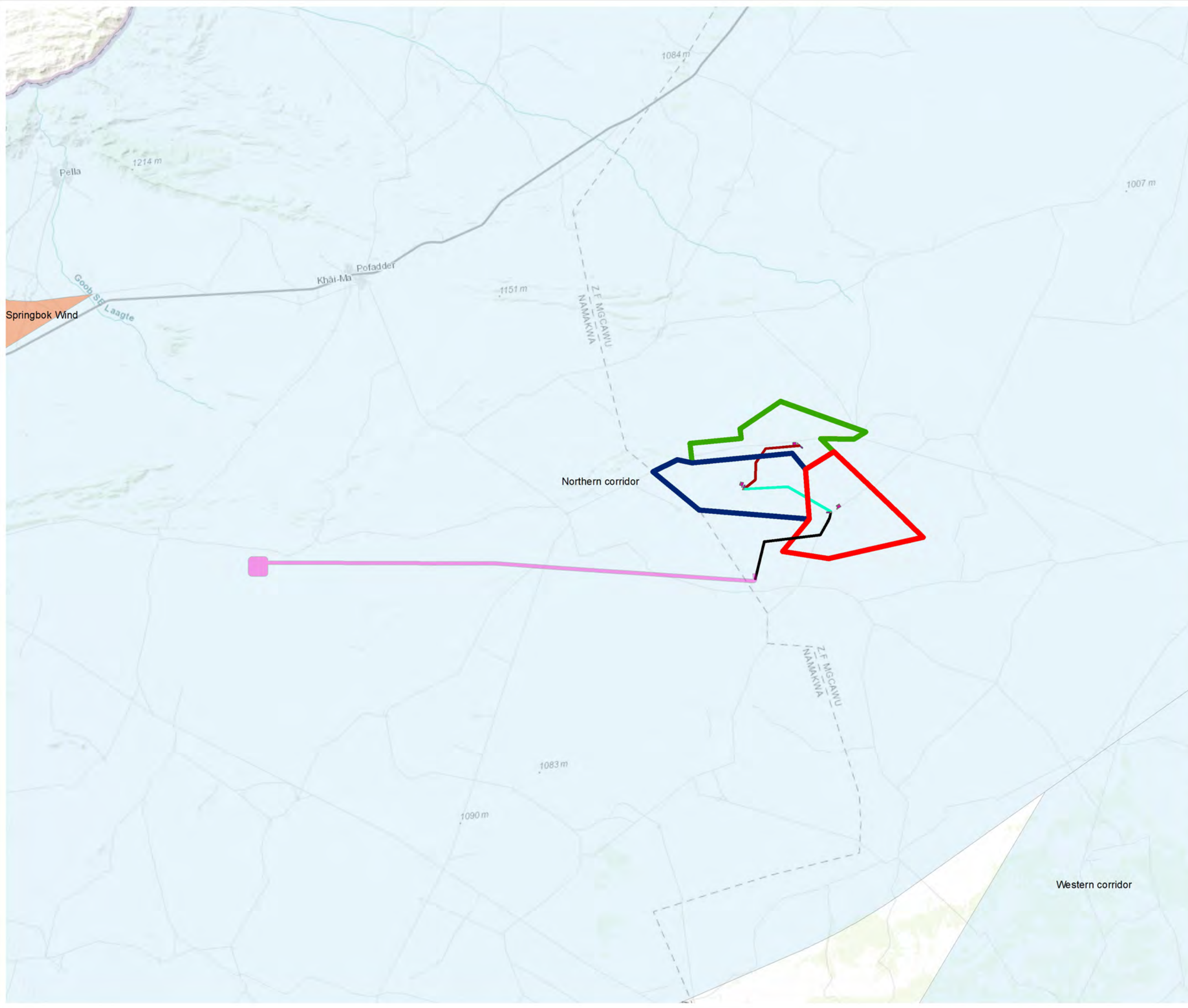


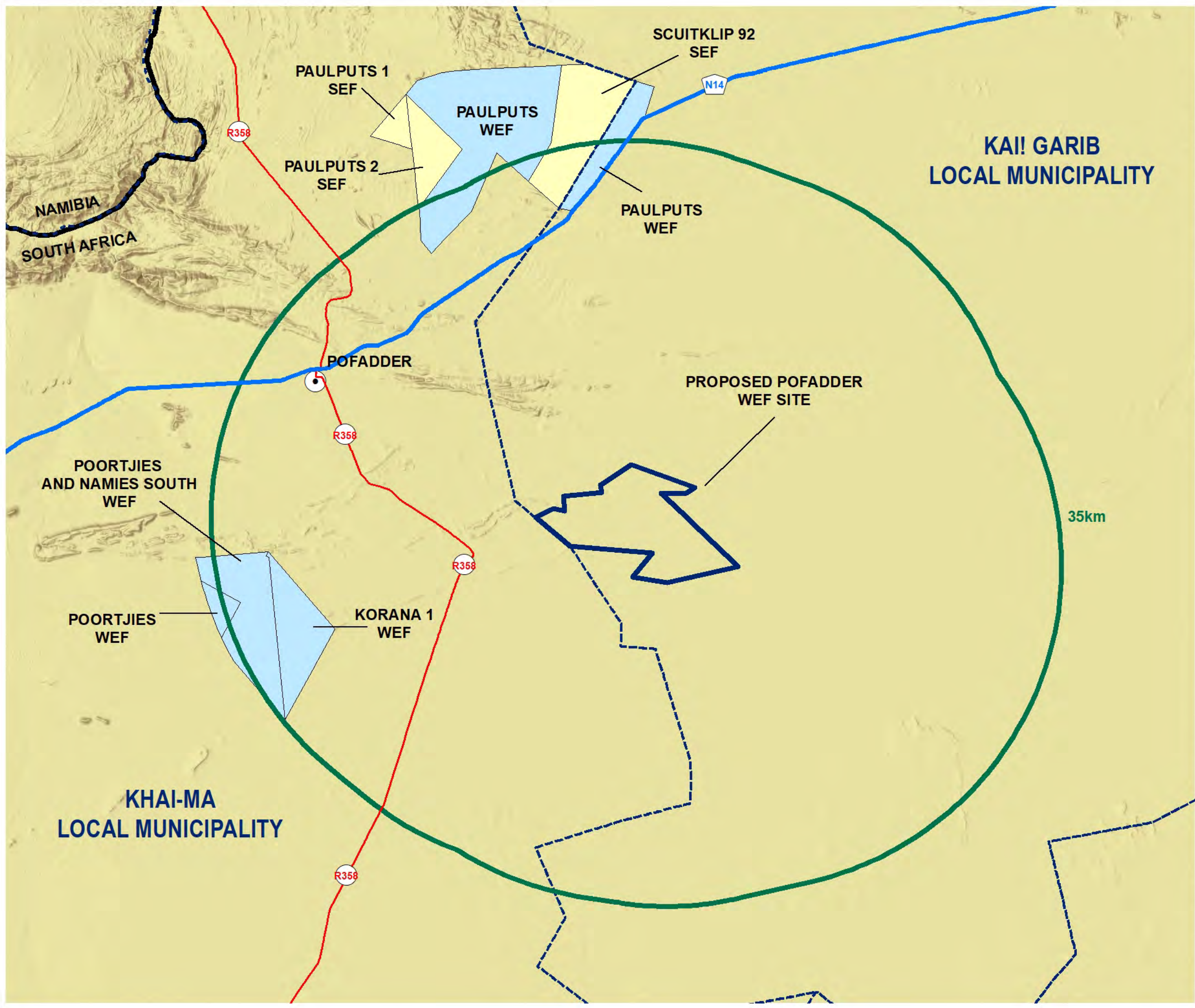
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PROPOSED CONSTRUCTION OF THE POFADDER WIND ENERGY FACILITY WITHIN KAI! GARIB LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE RENEWABLE ENERGY PROJECTS (EXISTING AND PROPOSED)

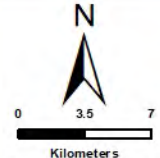
Legend

- Main Towns
- National Boundary
- Local Municipal Boundaries
- National Route
- Main Road
- Pofadder WEF Application Site (29° 18' 23.199" S; 19° 44' 35.194" E)
- 35km Radius

Renewable Energy Sites

- Wind
- Solar

Source:
DEFF, 2022
NGI, 2014
MUNICIPAL DEMARCATION BOARD, 2016

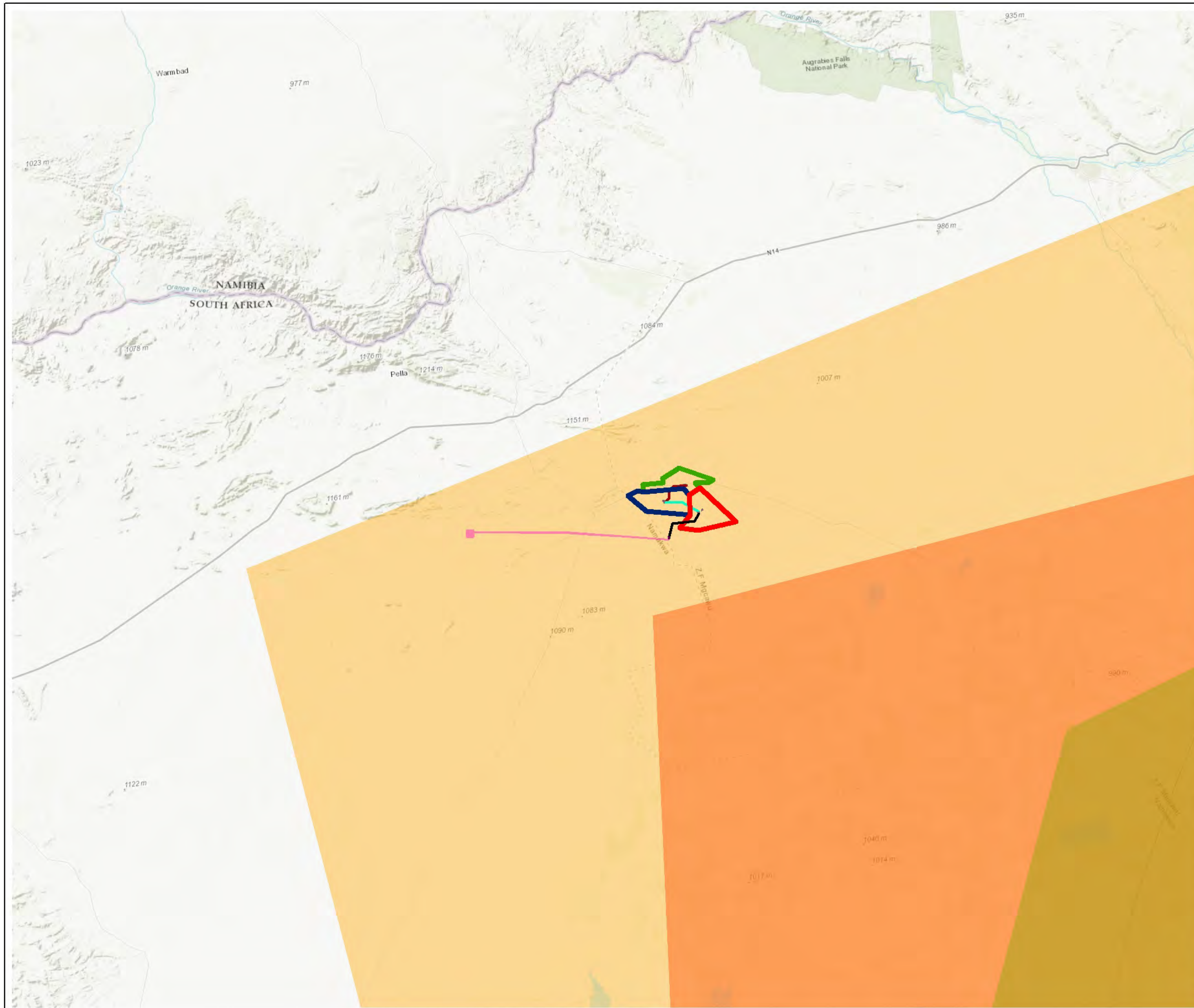


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**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY**
**WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE**
SKA ZONES

- Legend**
- Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)
 - Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)
 - Pofadder WEF 3 Application Site (29°20'2.14"S; 19°46'45.05"E)
 - KCAAA1
 - KCAAA2
 - KCAAA3
- Proposed WEF Components**
- Batching Plants
 - BESS Facilities
 - Operational & Maintenance Buildings
 - Site Camps
 - Facility Substations
 - Turbine Laydown Areas
 - Warehouses
- Grid Connection Alternatives**
- Preferred Alternative
 - WEF 1 132kv OH Line
 - WEF 2 132kv OH Line
 - WEF 3 132kv OH Line

Source:
ESKOM, 2012
NGI, 2014

	<p>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</p>
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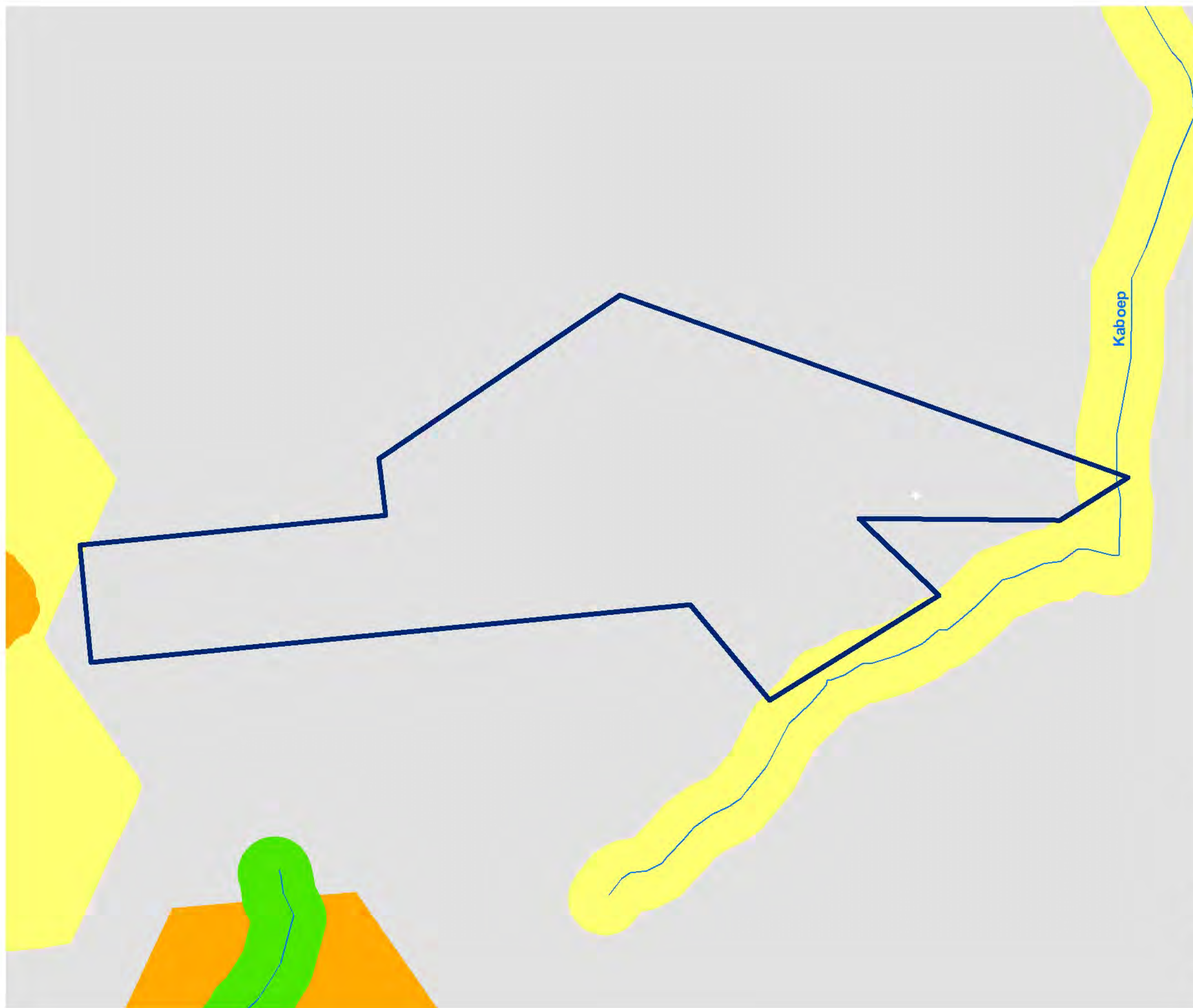
**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY 1
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
CRITICAL BIODIVERSITY AREAS**

Legend

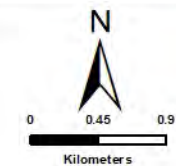
-  Rivers
-  Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)

CBA Classification

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



Source:
NFEPA, 2011
NORTHERN CAPE SPATIAL BIODIVERSITY PLAN, 2017



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**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY 1
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
CRITICAL BIODIVERSITY AREAS**





Legend

-  Rivers
-  Secondary Road (existing)
-  Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)

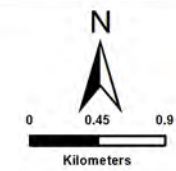
Proposed WEF Components

-  Turbine Locations & Foundations
-  Turbine Hardstands
-  Access Roads
-  Batching Plant
-  BESS Facility
-  Operational & Maintenance Building
-  Site Camp
-  Facility Substation
-  Turbine Laydown Area
-  Warehouse
-  MV Cabling

CBA Classification

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

Source:
NFEPA, 2011
NORTHERN CAPE SPATIAL BIODIVERSITY PLAN, 2017

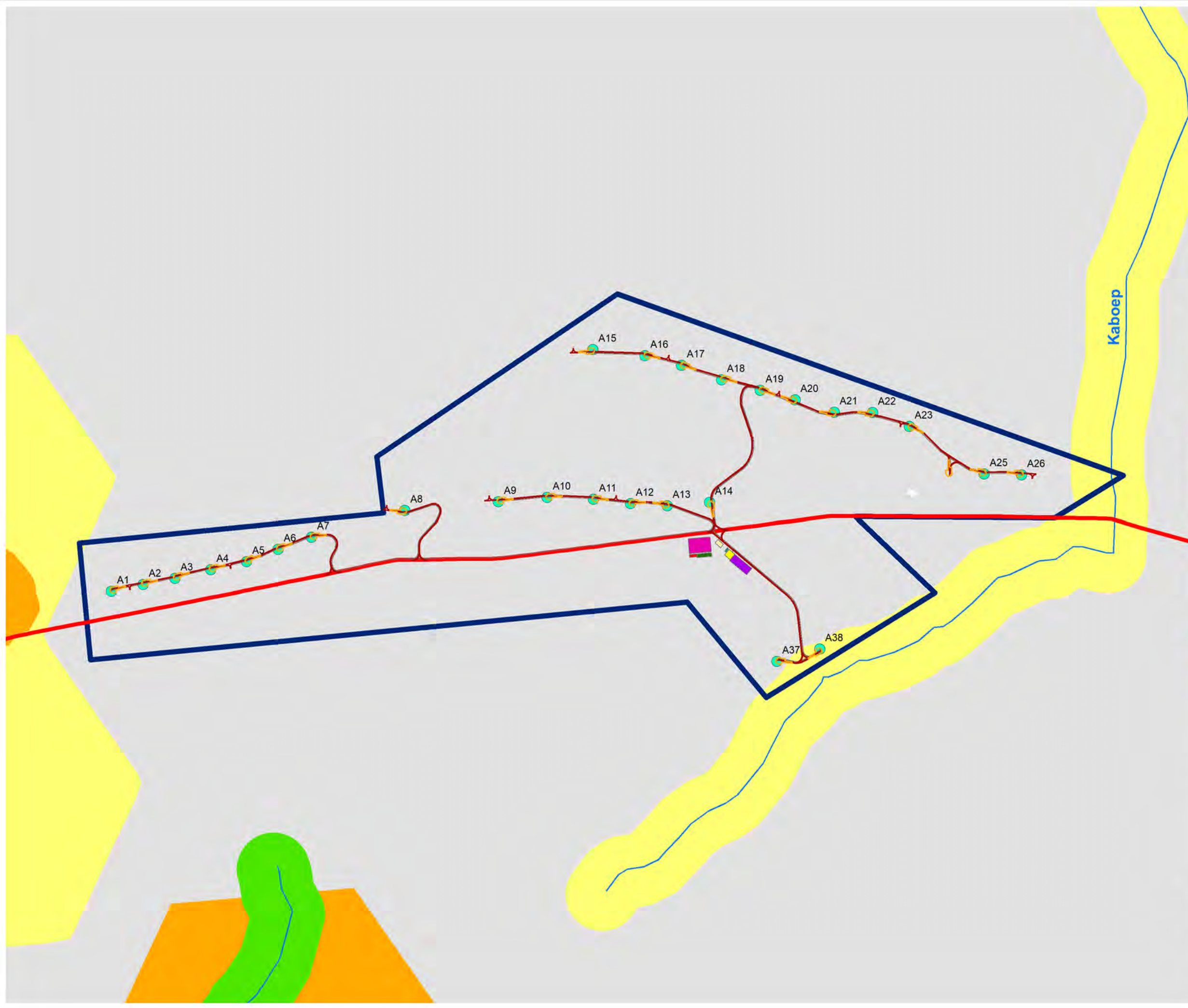


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










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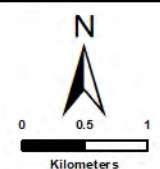


**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY 1
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
BROAD LAND COVER
CLASSIFICATION**

Legend

-  Rivers
 -  Pofadder WEF 1 Application Site
(29°16'27.84"S; 19°44'1.91"E)
- Land Cover Classification**
-  Artificial Dams (including Canals)
 -  Bare Riverbed Material
 -  Dry Pans
 -  Low Shrubland (Nama Karoo)
 -  Low Shrubland (Succulent Karoo)
 -  Mines: Extraction pits, Quarries
 -  Natural Grassland
 -  Other Bare
 -  Roads & Rails (Major Linear)
 -  Sparsely Wooded Grassland
 -  Village Dense (Bare & Low Veg / Grss Combo)
 -  Village Scattered (Bare & Low Veg/ Grss combo)

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

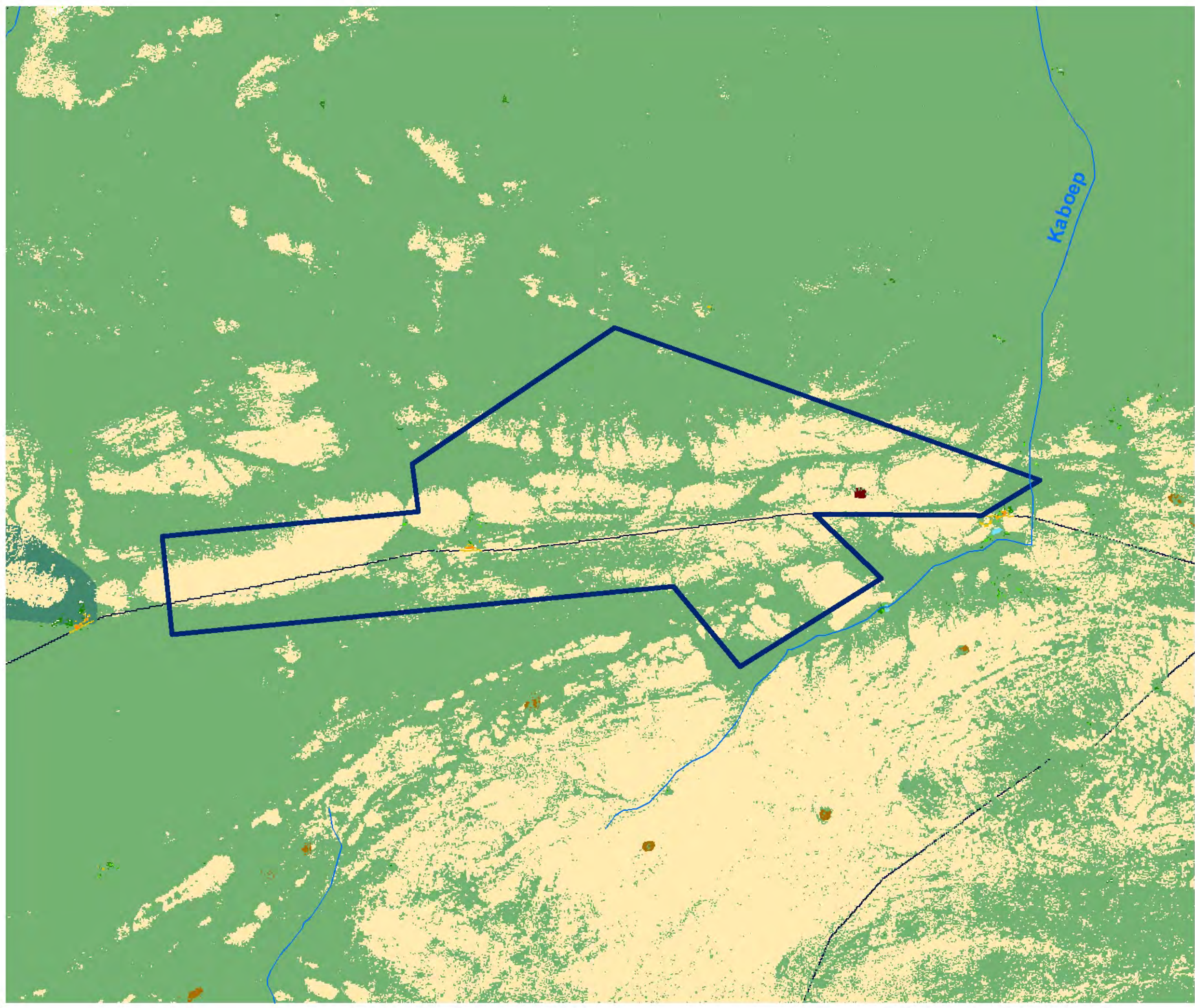


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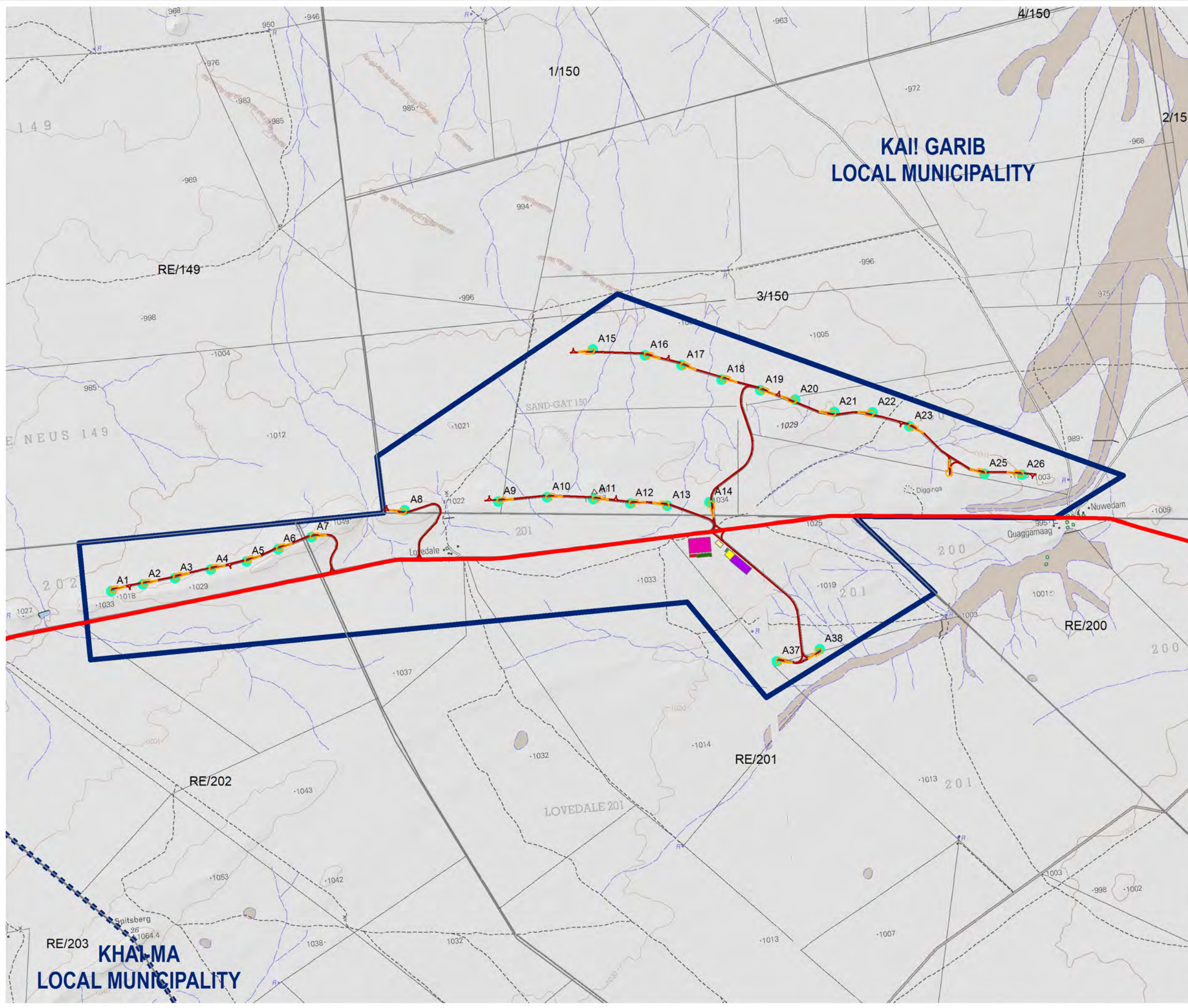
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PROPOSED CONSTRUCTION OF THE POFADDER WIND ENERGY FACILITY 1 WITHIN KAI GARIB LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
PROPOSED LAYOUT



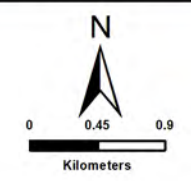
Legend

- Secondary Road (existing, to be widened)
- Local Municipal Boundary
- Farm Portions
- Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)

Proposed WEF Components

- Turbine Locations & Foundations
- Turbine Hardstands
- Access Roads (new & existing, to be widened)
- Batching Plant
- BESS Facility
- Operational & Maintenance Building
- Site Camp
- Facility Substation
- Turbine Laydown Area
- Warehouse
- MV Cabling

Source:
 NGI, 2014
 MUNICIPAL DERMACATION BOARD, 2016



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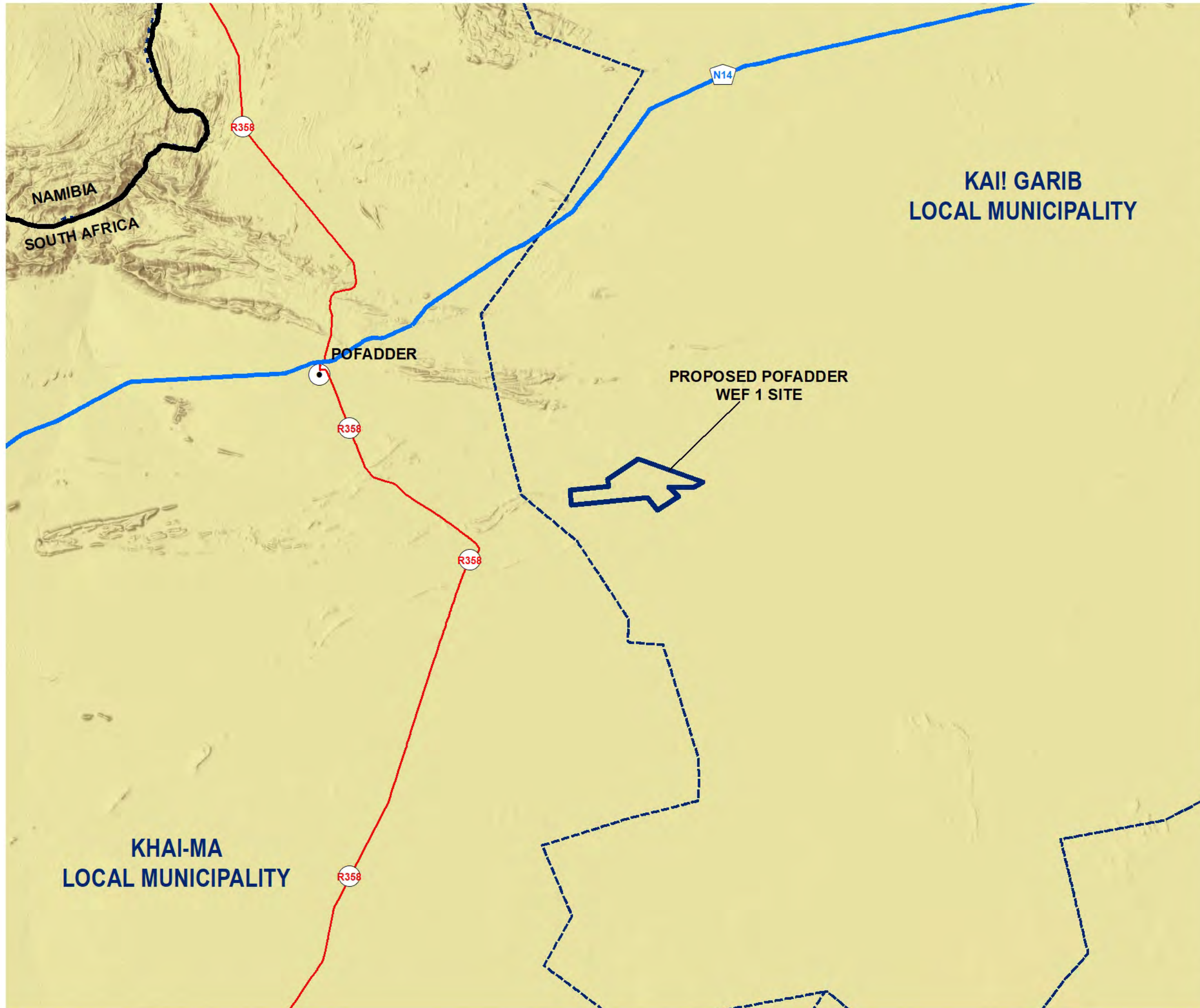
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RE/203 KHAMA LOCAL MUNICIPALITY

**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY 1
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
REGIONAL CONTEXT**

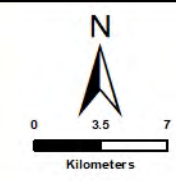


Legend

- Main Towns
- National Boundary
- Local Municipal Boundaries
- National Route
- Main Road
- Pofadder WEF 1 Application Site (29° 16' 27.84"S; 19° 44' 1.91"E)



Source:
NGI, 2014
MUNICIPAL DEMARCATION BOARD, 2016



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**KHAI-MA
LOCAL MUNICIPALITY**

**KAI! GARIB
LOCAL MUNICIPALITY**







**PROPOSED POFADDER
WEF 1 SITE**

**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY 1
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
SENSITIVITY LAYOUT**

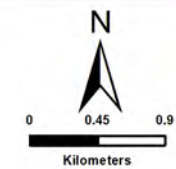
Legend

-  Secondary Road (existing, to be widened)
-  Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)
- Proposed WEF Components**
-  Turbine Locations & Foundations
-  Turbine Hardstands
-  Access Roads (new & existing, to be widened)
-  Batching Plant
-  BESS Facility
-  Operational & Maintenance Building
-  Site Camp
-  Facility Substation
-  Turbine Laydown Area
-  Warehouse
-  MV Cabling

Environmental Sensitivities (inclusive of buffers)

-  Surface Water Features
-  Ecological Sensitivity
-  Heritage Sensitivity
-  Avifaunal Sensitivity
-  Bat Sensitivity
-  Noise Sensitivity

Source:
NGI, 2014



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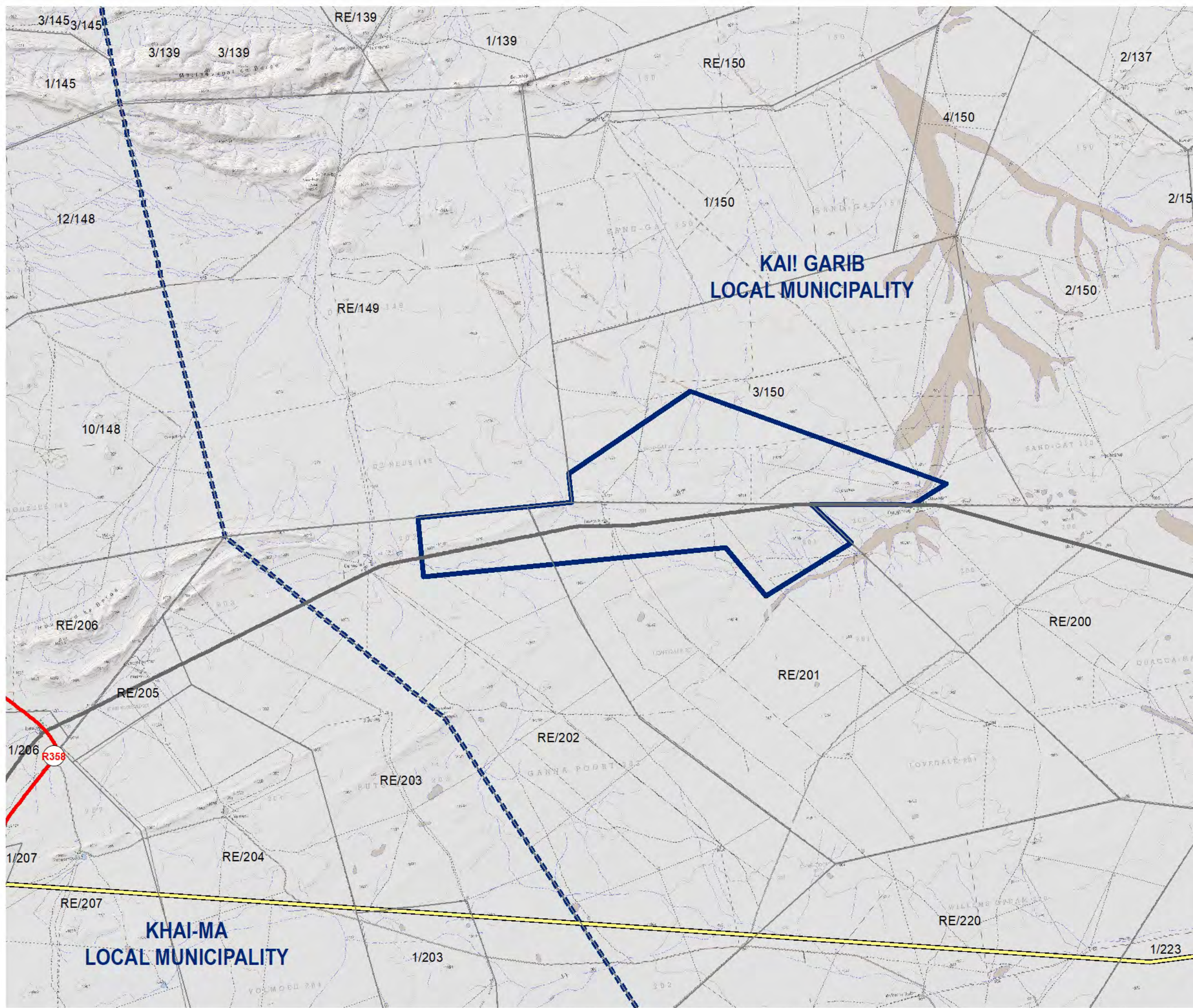
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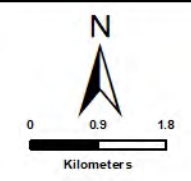


**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY 1
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
SITE LOCALITY**



- Legend**
- Existing High Voltage Power Line 400kV
 - Main Road
 - Secondary Road
 - Local Municipal
 - Farm Portions
 - Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)

Source:
NGI, 2014
ESKOM, 2012
MUNICIPAL DERMICATION BOARD, 2016



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**KHAI-MA
LOCAL MUNICIPALITY**

**KAI! GARIB
LOCAL MUNICIPALITY**

**PROPOSED CONSTRUCTION
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WIND ENERGY FACILITY 1
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
TURBINE
SENSITIVITY LAYOUT**

Legend

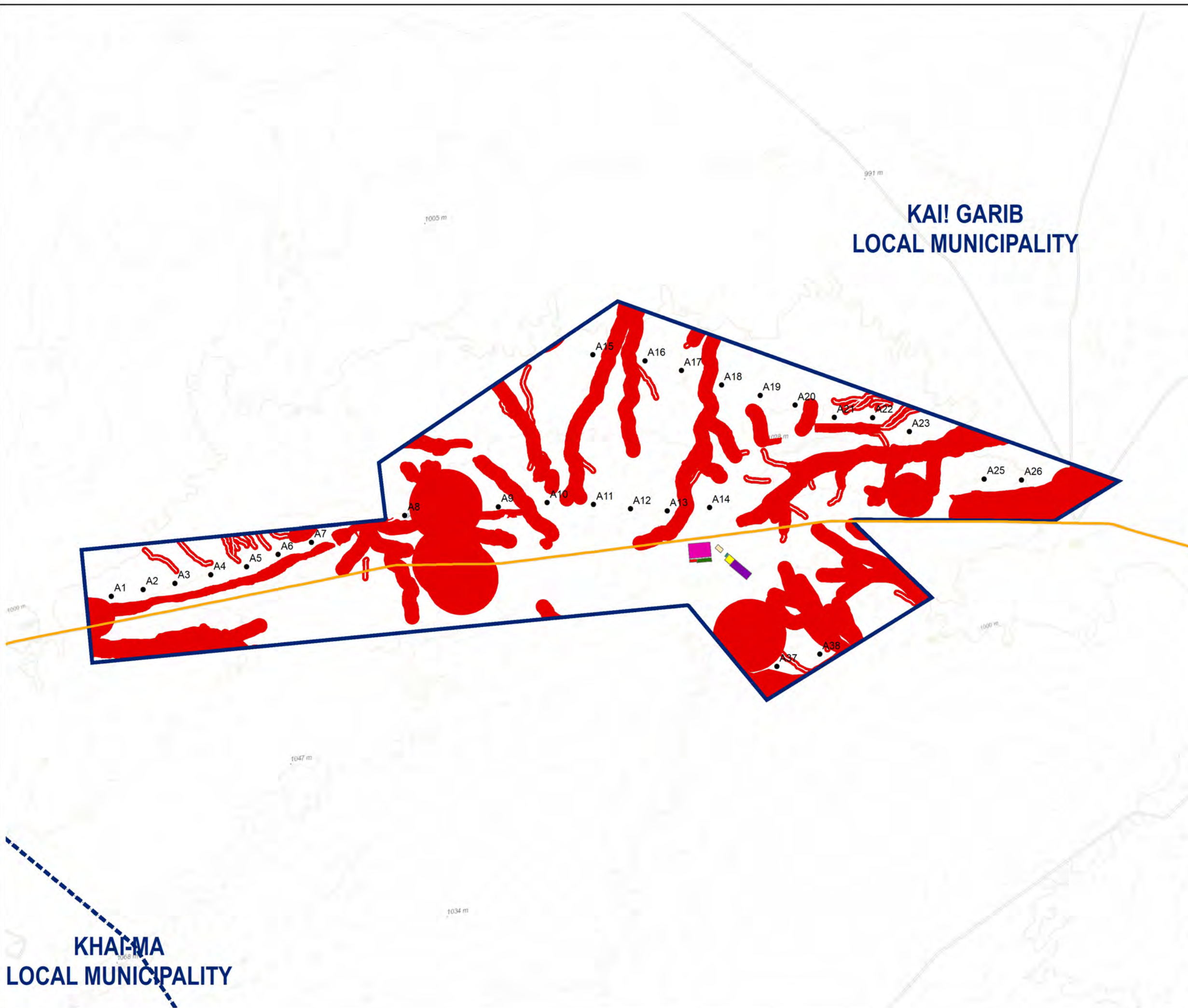
-  Secondary Road (existing, to be widened)
-  Local Municipal Boundaries
-  Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)

Proposed WEF Components

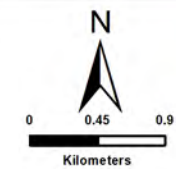
-  Turbine Locations & Foundations
-  Batching Plant
-  BESS Facility
-  Operational & Maintenance Building
-  Site Camp
-  Facility Substation
-  Turbine Laydown Area
-  Warehouse

Sensitivity Category

-  No-Go



Source:
NGI, 2014



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
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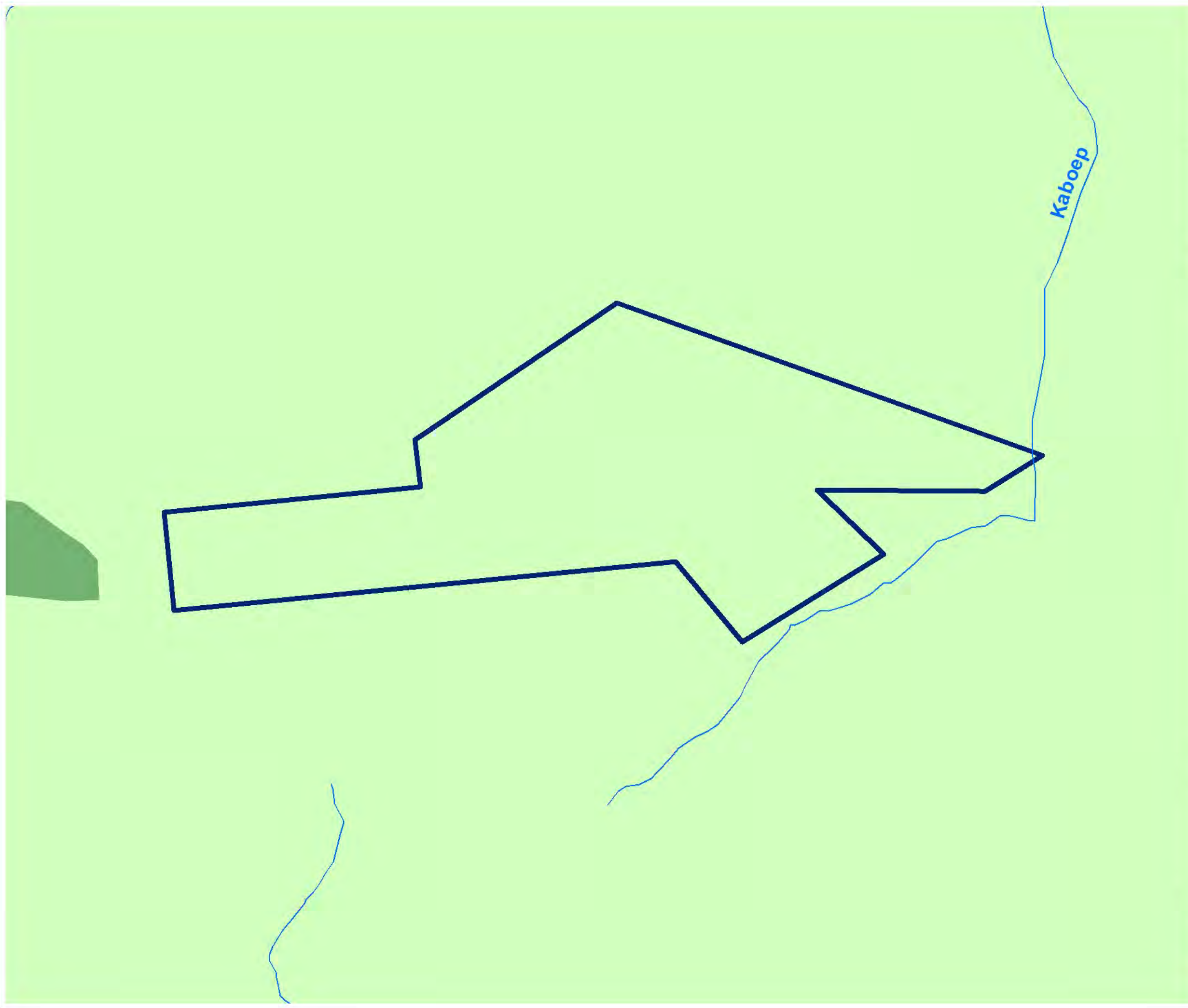
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**KHAMA
LOCAL MUNICIPALITY**

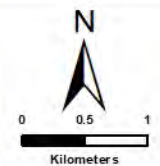
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NORTHERN CAPE PROVINCE
VEGETATION CLASSIFICATION**

Legend

-  Rivers
-  Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)
- Vegetation Classification**
-  Bushmanland Inselberg Shrubland
-  Bushmanland Arid Grassland



Source:
NFEPA, 2011
SANBI, 2018



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