













Appendix 5

Maps

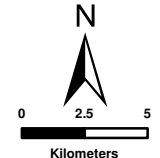
**PROPOSED
CONSTRUCTION OF THE
WONDERHEUVEL SOLAR
PHOTOVOLTAIC (PV)
ENERGY FACILITY
NEAR NOUPOORT,
NORTHERN CAPE PROVINCE
REGIONAL CONTEXT**

Legend

-  Provincial Boundary
-  Local Municipal Boundaries
-  National Routes
-  Main Arterial Routes
-  Main Roads
-  Secondary Roads
-  Railways
-  Main Towns
-  Wonderheuveul Solar PV Application Site
-  Proposed On-Site Substations

SOURCE:
MUNICIPAL DEMARCATION BOARD, 2011
NGI, 2014





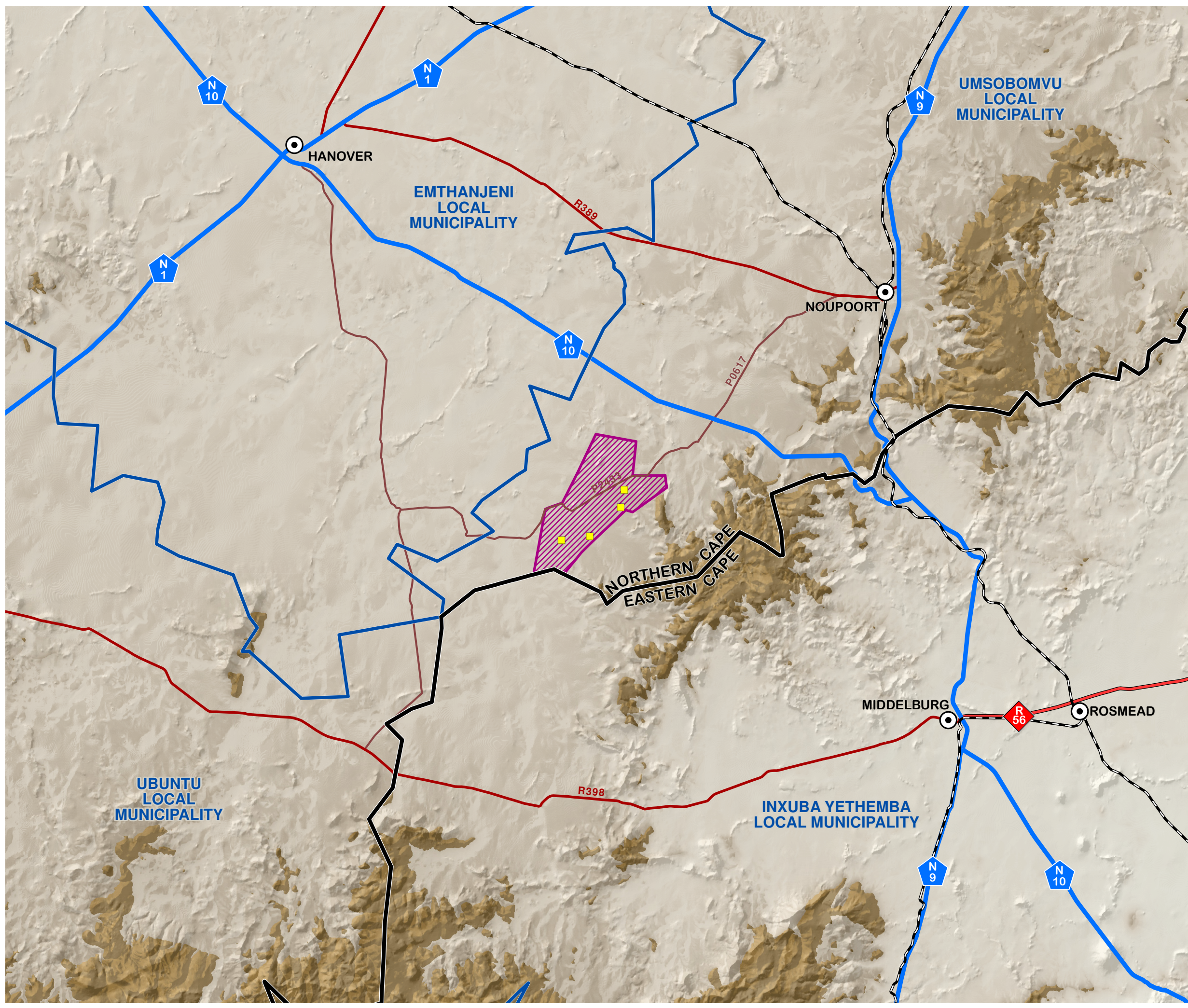


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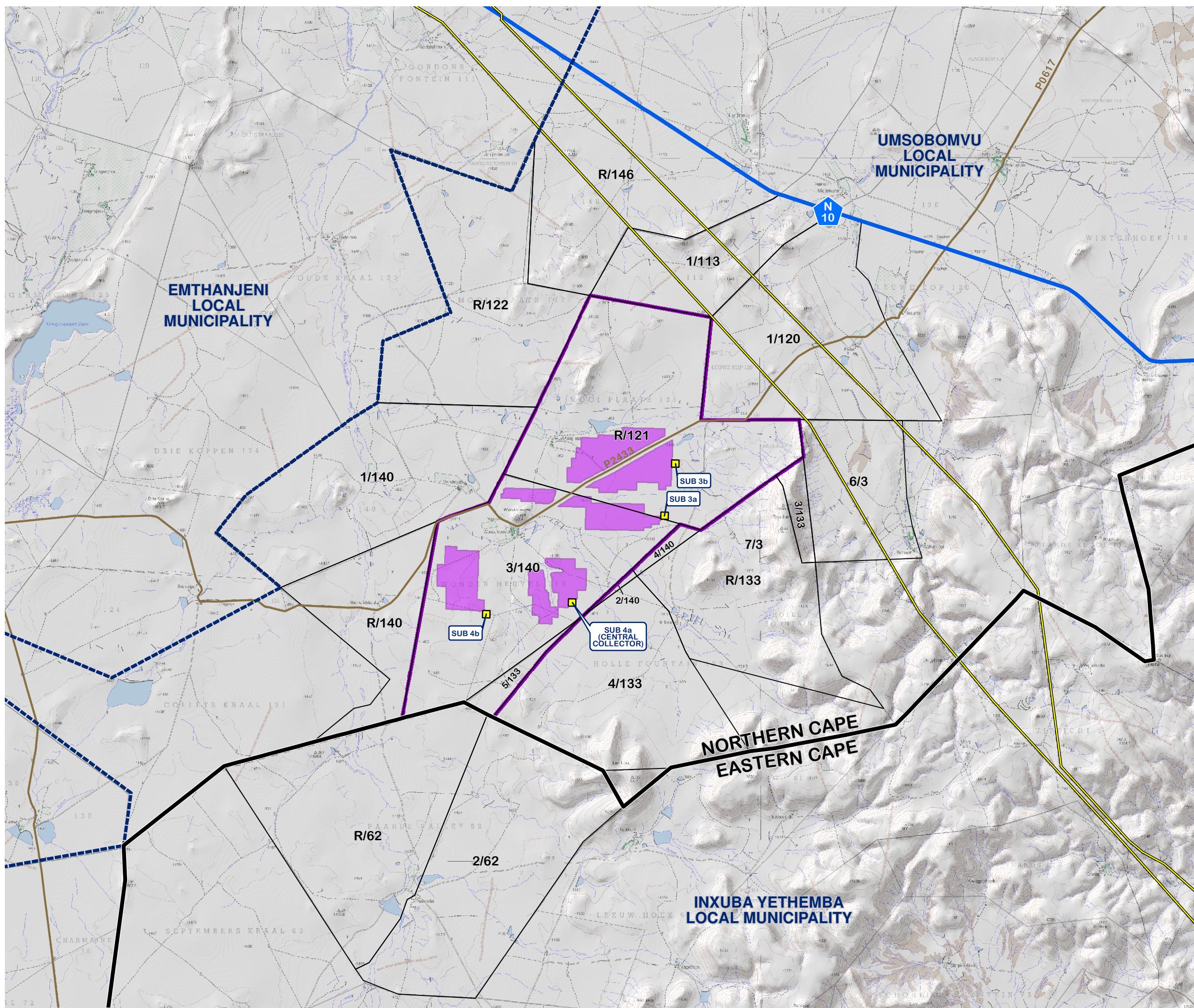
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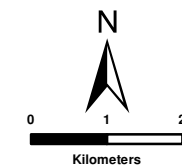
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ENERGY FACILITY**
**NEAR NOUPOORT,
NORTHERN CAPE PROVINCE
SITE LOCALITY**



Legend

- Provincial Boundary
- Local Municipal Boundaries
- National Route (N10)
- Secondary Roads
- Existing High Voltage Power Lines (400kV)
- Farm Portions
- Wonderheuveld Solar PV Application Site
- PV Array Areas
- Proposed On-Site Substations

SOURCE:
ESKOM, 2012
MUNICIPAL DEMARCATION BOARD, 2016
NGI, 2014



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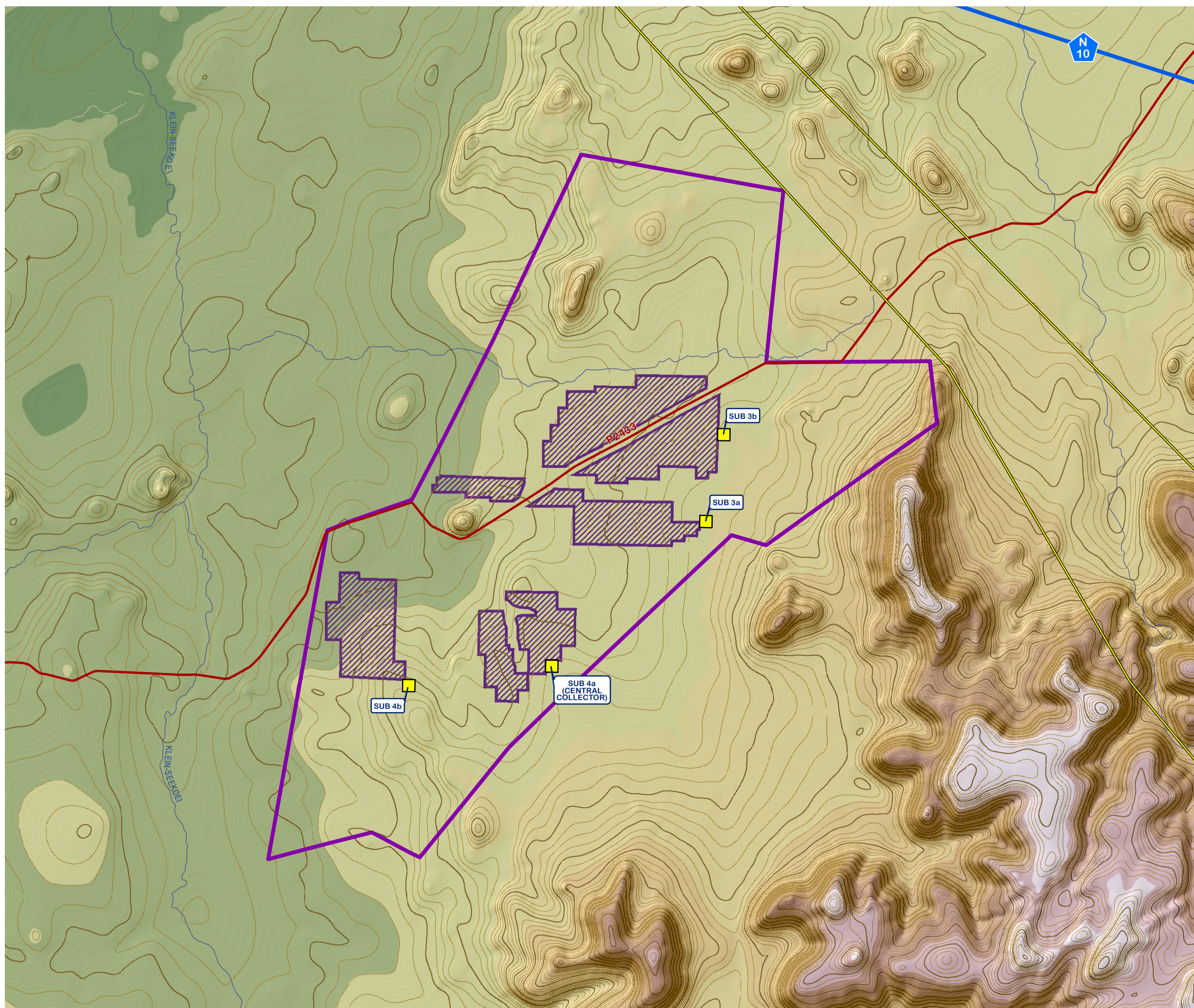
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ENERGY FACILITY**
NEAR NOUPOORT,
NORTHERN CAPE PROVINCE
TOPOGRAPHY

Legend


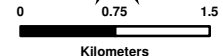

-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Contours (20m Interval)
-  Contours (5m Interval)
-  Wonderheuveul Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations

Elevation (msl)

-  High: >1,800m
-  Low: <=1,400m



SOURCE:
ESKOM, 2012
MUNICIPAL DEMARCATION BOARD, 2016
NGI, 2014

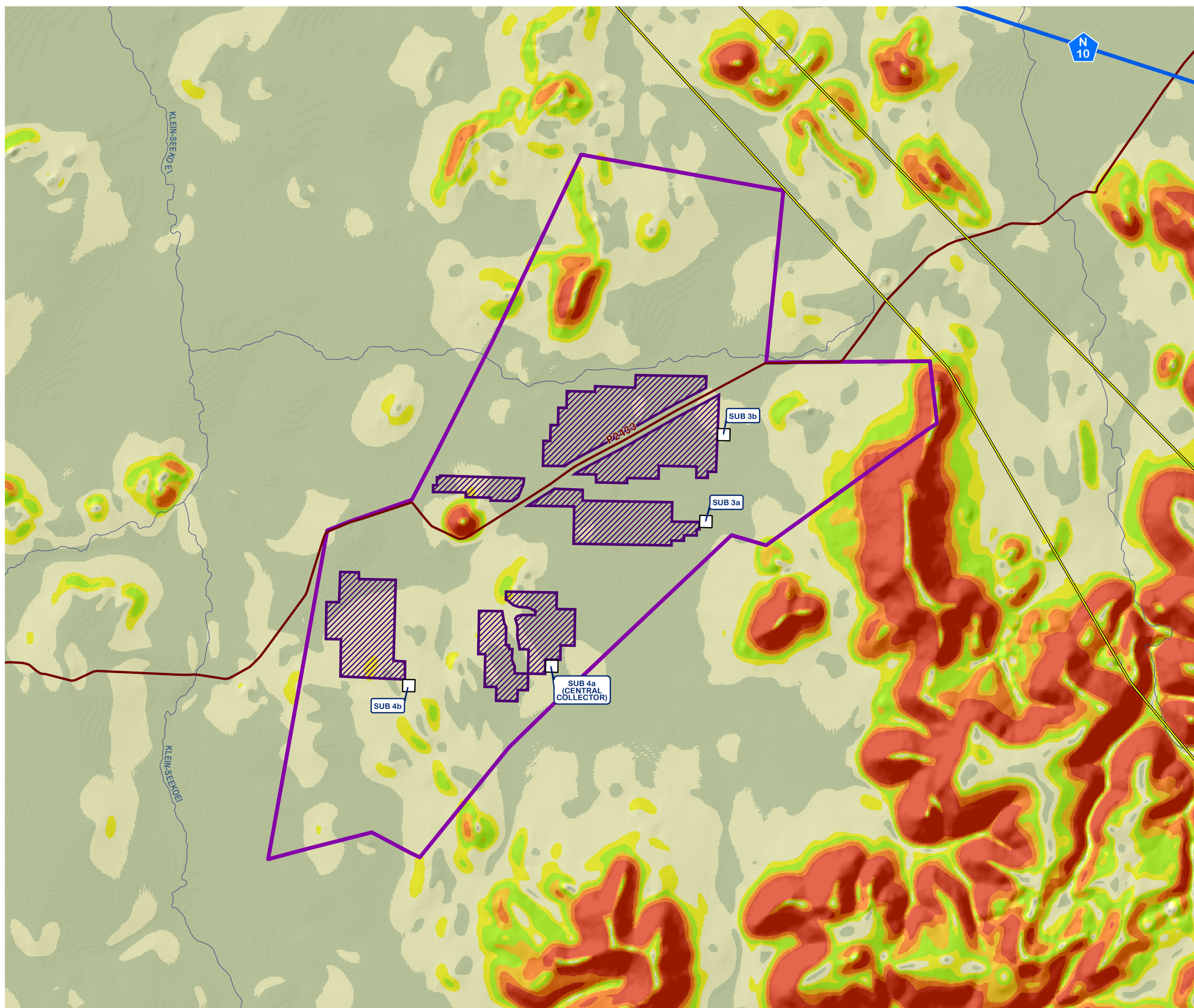
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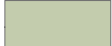






**PROPOSED
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ENERGY FACILITY
NEAR NOUPOORT,
NORTHERN CAPE PROVINCE
SLOPE CLASSIFICATION**



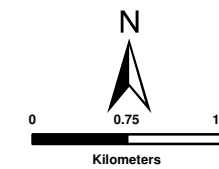
Legend

-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Wonderheuvel Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations

Slope Classification

-  Flatter than 1:50
-  1:50 - 1:20
-  1:20 - 1:15
-  1:15 - 1:10
-  1:10 - 1:7.5
-  1:7.5 - 1:5
-  Steeper than 1:5

SOURCE:
ESKOM, 2012
MUNICIPAL DEMARCATION BOARD, 2016
NGI, 2014



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**PROPOSED
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ENERGY FACILITY**
**NEAR NOUPOORT,
NORTHERN CAPE PROVINCE**
VEGETATION CLASSIFICATION

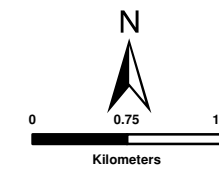
Legend

-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Wonderheuvël Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations

Vegetation Classification

-  Besemkaree Koppies Shrubland
-  Eastern Upper Karoo

SOURCE:
ESKOM, 2012
NGI, 2014
SANBI, 2012



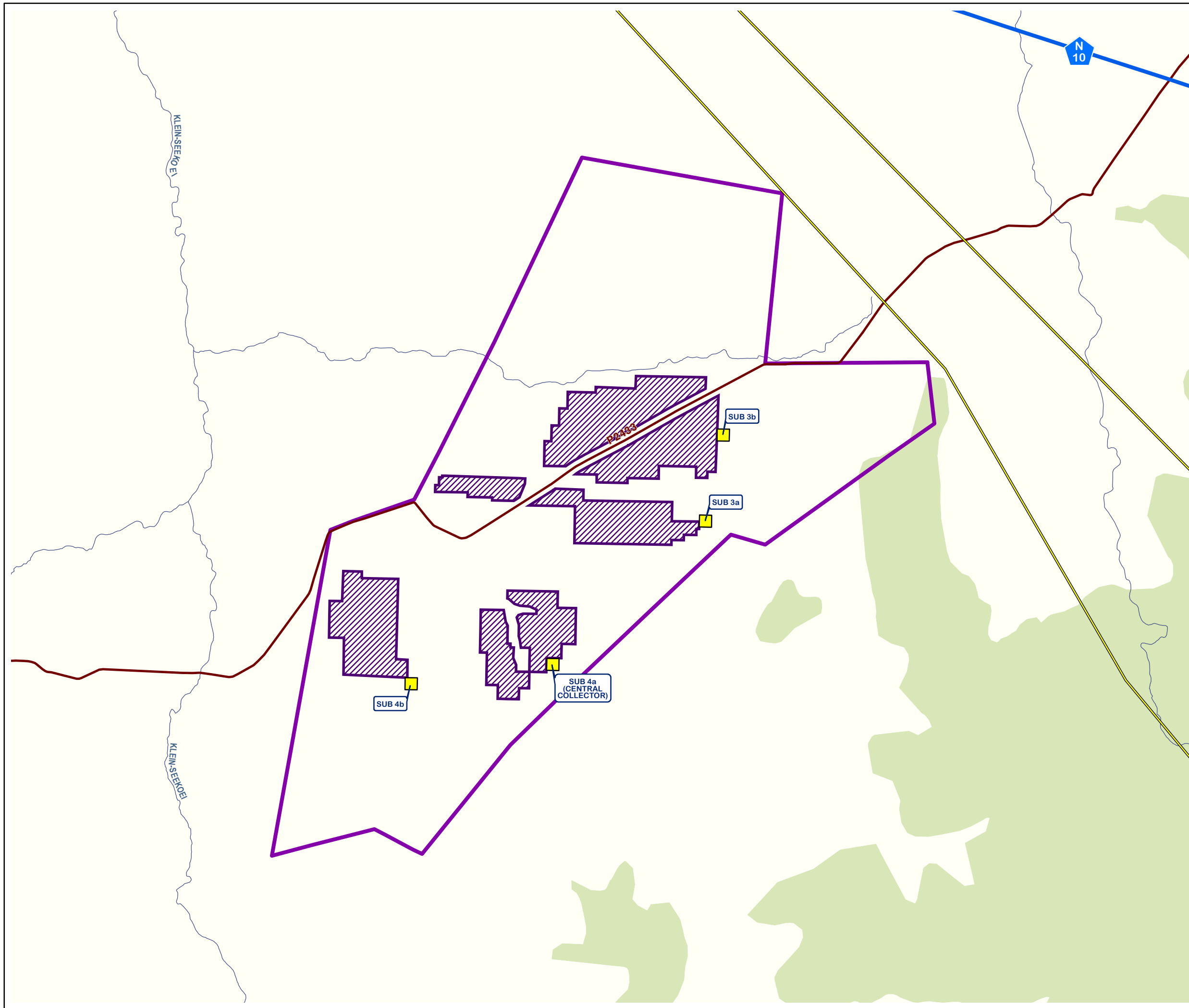
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Land Cover Classification








-  Bare (None Vegetated)
-  Cultivation
-  Grassland
-  Low Shrubland
-  Mining
-  Thicket/Dense Bush
-  Waterbodies
-  Woodland/Open Bush

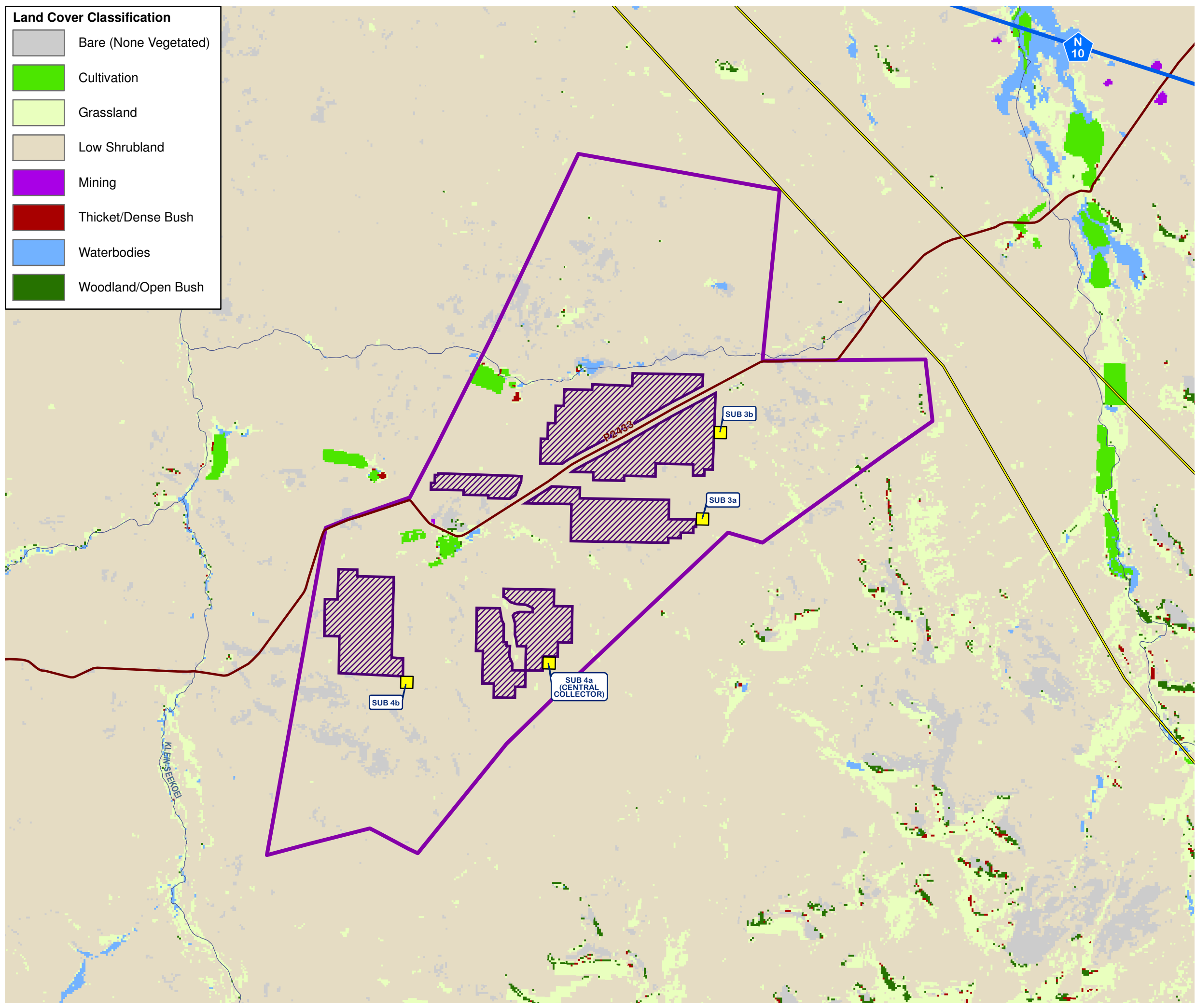
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ENERGY FACILITY**

**NEAR NOUPOORT,
NORTHERN CAPE PROVINCE**

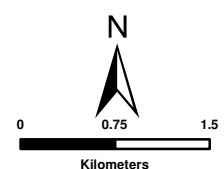
**BROAD LAND COVER
CLASSIFICATION**

Legend

-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Wonderheuveul Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations



SOURCE:
ESKOM, 2012
NGI, 2014
2013-2014 SA NATIONAL LAND COVER
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**PROPOSED
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PHOTOVOLTAIC (PV)
ENERGY FACILITY**
**NEAR NOUPOORT,
NORTHERN CAPE PROVINCE
CRITICAL BIODIVERSITY AREAS**

Legend

-  Provincial Boundary
-  National Route (N10)
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Wonderheuveul Solar PV Application Site
-  PV Array Areas
-  Proposed On-Site Substations

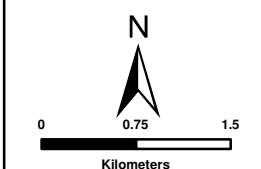
CBA Classification (Northern Cape)

-  Critical Biodiversity Area One
-  Critical Biodiversity Area Two
-  Ecological Support Area
-  Other Natural Areas

CBA Classification (Eastern Cape)

-  Other Natural Areas

SOURCE:
ESKOM, 2012
NFEPA, 2011
NORTHERN CAPE DEPT OF ENVIRONMENT AND
CONSERVATION, 2016
EASTERN CAPE BIODIVERSITY CONSERVATION PLAN, 2007

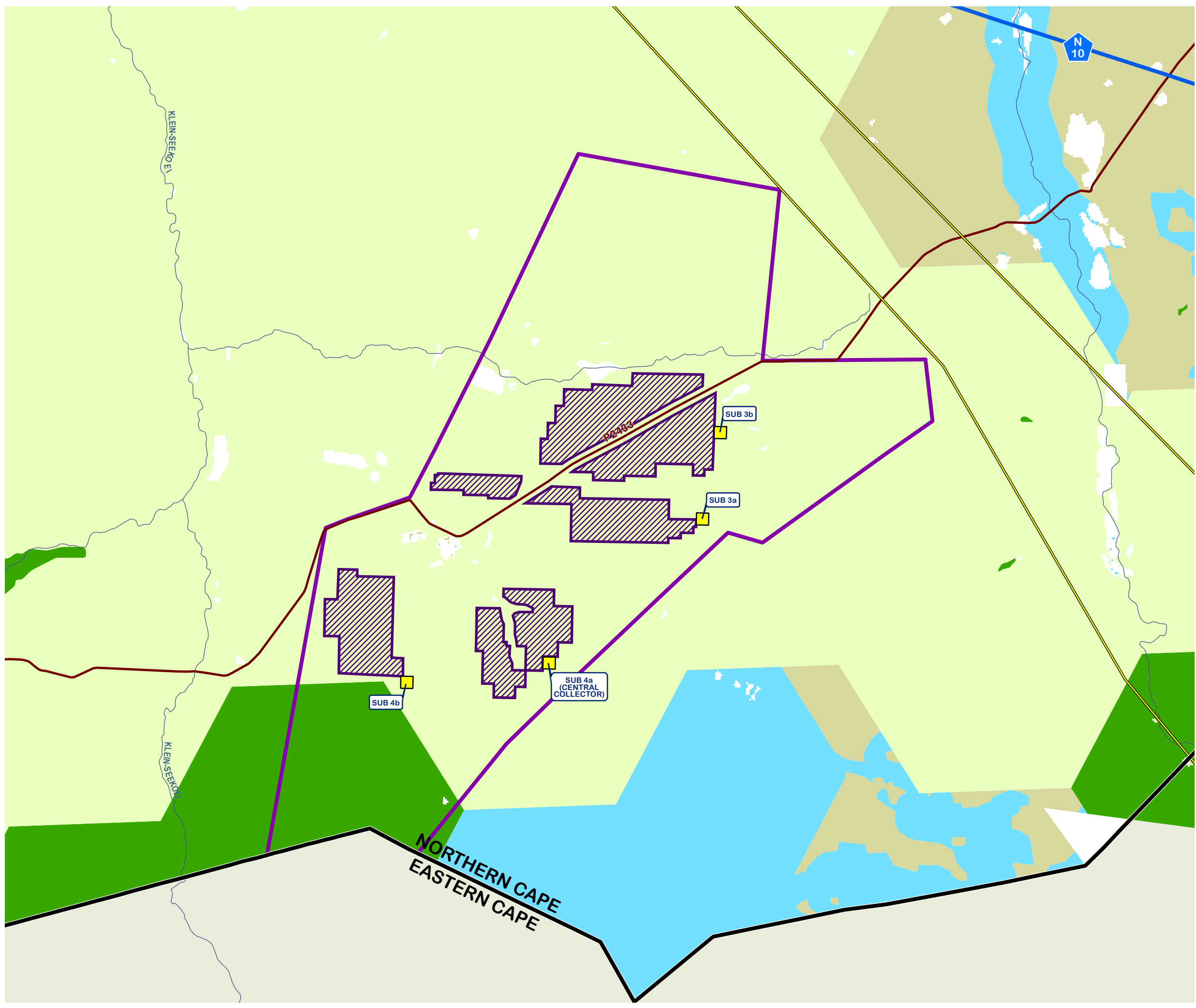


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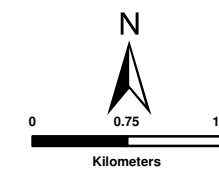


**PROPOSED
CONSTRUCTION OF THE
WONDERHEUVEL SOLAR
PHOTOVOLTAIC (PV)
ENERGY FACILITY
NEAR NOUPOORT,
NORTHERN CAPE PROVINCE
PRELIMINARY LAYOUT**

Legend

-  Provincial Boundary
 -  National Route (N10)
 -  Secondary Roads
 -  Existing High Voltage Power Lines (400kV)
 -  Wonderheuvvel Solar PV Application Site
 -  Preliminary PV Development Area
 -  Proposed On-Site Substations
- Environmental Sensitivity**
-  Agricultural 'No-Go' Areas
 -  Ecological 'No-Go' Areas
 -  Palaeontology 'No-Go' Areas
 -  Visual 'No-Go' Areas
 -  Perennial Water Courses
 -  Perennial Water Course Buffers (15m)

SOURCE:
ESKOM, 2012
NFEPA, 2011

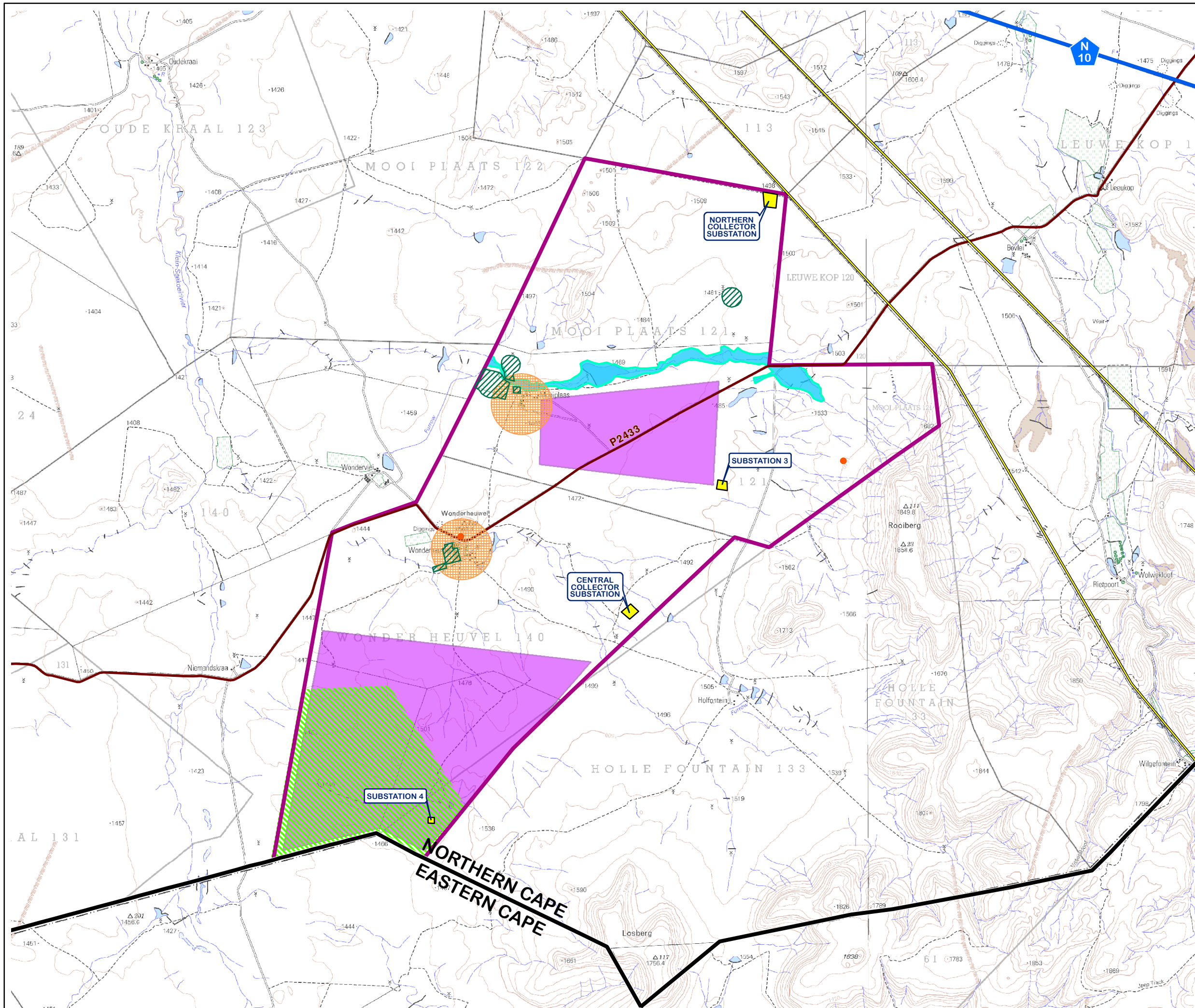


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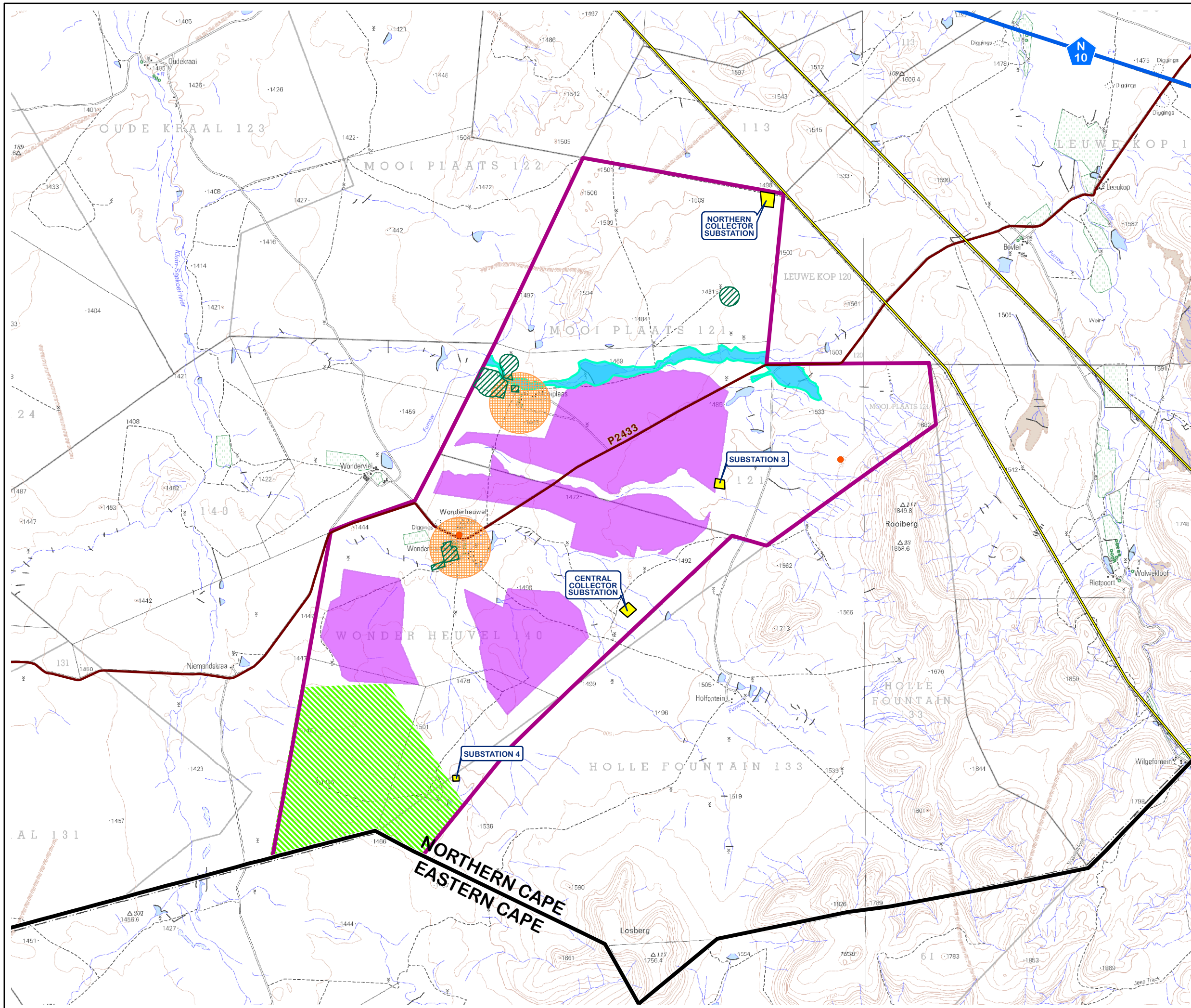
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PROPOSED CONSTRUCTION OF THE WONDERHEUVEL SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY

NEAR NOUPOORT, NORTHERN CAPE PROVINCE

PROPOSED LAYOUT



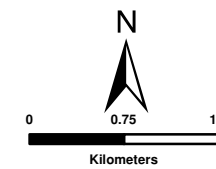
Legend

- Provincial Boundary
- National Route (N10)
- Secondary Roads
- Existing High Voltage Power Lines (400kV)
- Wonderheuveld Solar PV Application Site
- Proposed PV Development Area
- Proposed On-Site Substations

Environmental Sensitivity

- Agricultural 'No-Go' Areas
- Ecological 'No-Go' Areas
- Palaeontology 'No-Go' Areas
- Visual 'No-Go' Areas
- Perennial Water Courses
- Perennial Water Course Buffers (15m)

SOURCE:
ESKOM, 2012
NFEPA, 2011



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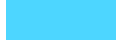

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Environmental Sensitivity





-  Agricultural 'No-Go' Areas
-  Ecological 'No-Go' Areas
-  Palaeontology 'No-Go' Areas
-  Visual 'No-Go' Areas
-  Perennial Water Courses
-  Perennial Water Course Buffers (15m)

**PROPOSED
CONSTRUCTION OF THE
WONDERHEUVEL SOLAR
PHOTOVOLTAIC (PV)
ENERGY FACILITY**






**NEAR NOUPOORT,
NORTHERN CAPE PROVINCE**

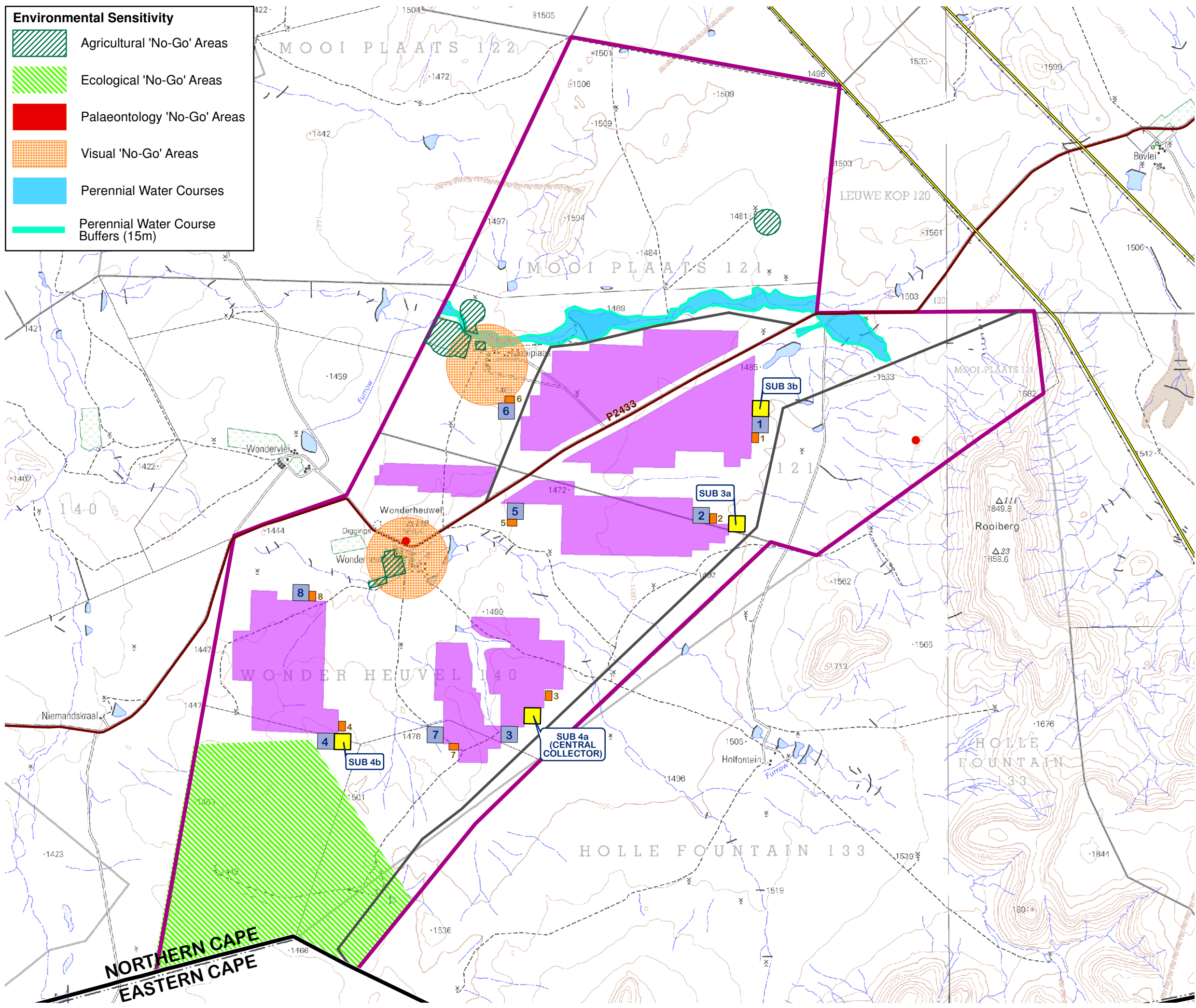
**PROPOSED LAYOUT
ALTERNATIVES**

Legend

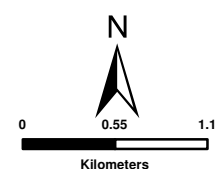
-  Provincial Boundary
-  Secondary Roads
-  Existing High Voltage Power Lines (400kV)
-  Wonderheuvvel Solar PV Application Site

Proposed PV Layout Components

-  PV Array
-  On-Site Substations
-  Laydown Area
-  O&M Site Alternatives
-  Internal Road Network



SOURCE:
ESKOM, 2012
NGI, 2014



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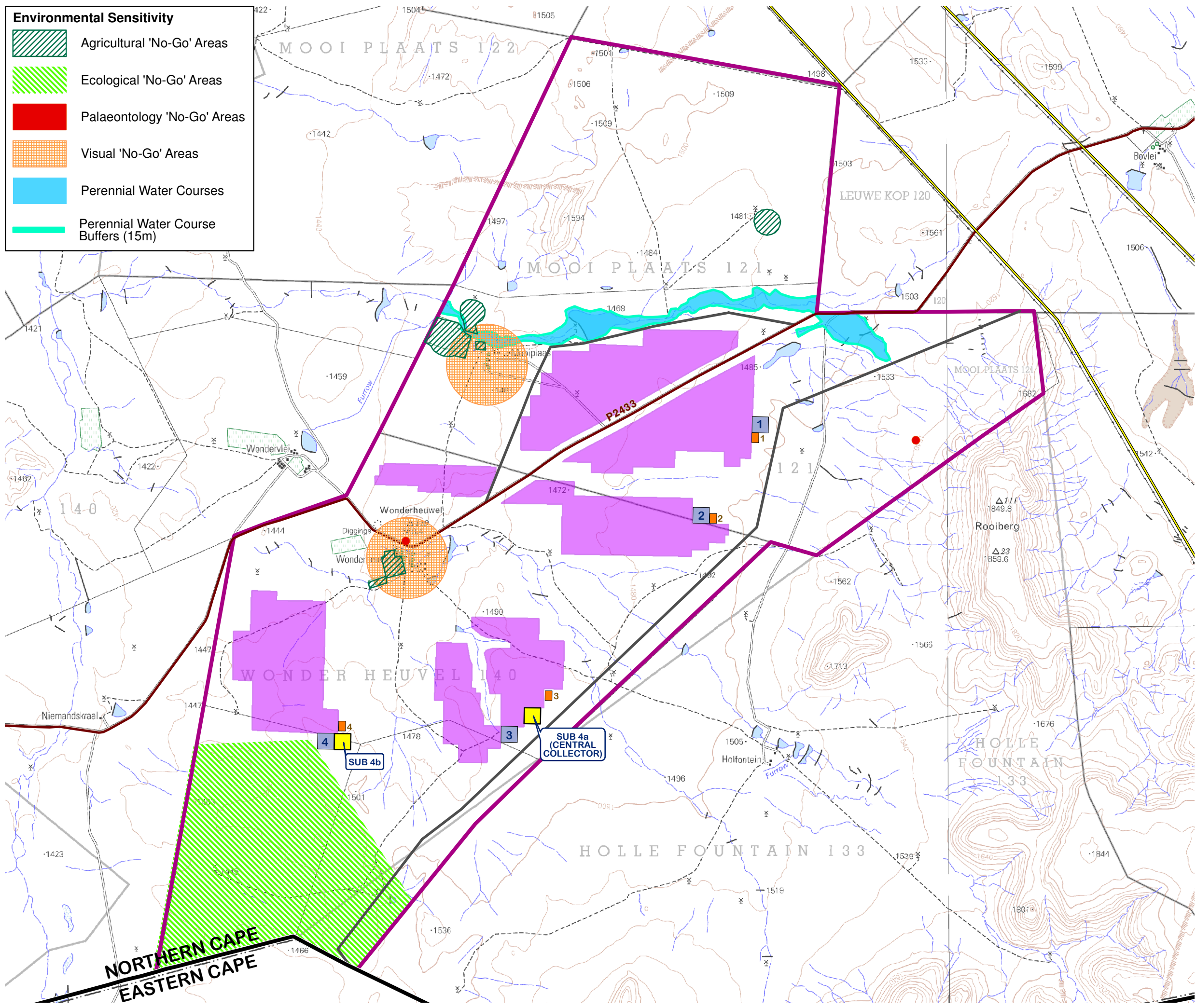
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**NORTHERN CAPE
EASTERN CAPE**

Environmental Sensitivity

- Agricultural 'No-Go' Areas
- Ecological 'No-Go' Areas
- Palaeontology 'No-Go' Areas
- Visual 'No-Go' Areas
- Perennial Water Courses
- Perennial Water Course Buffers (15m)

PROPOSED CONSTRUCTION OF THE WONDERHEUVEL SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY
NEAR NOUPOORT, NORTHERN CAPE PROVINCE
PREFERRED LAYOUT ALTERNATIVES



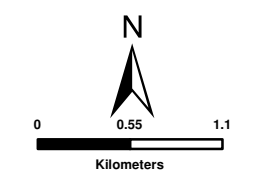
Legend

- Provincial Boundary
- Secondary Roads
- Existing High Voltage Power Lines (400kV)
- Wonderheuvvel Solar PV Application Site

Proposed PV Layout Components

- PV Array
- On-Site Substations
- Laydown Area
- O&M Site Alternatives
- Internal Road Network

SOURCE: ESKOM, 2012
NGI, 2014



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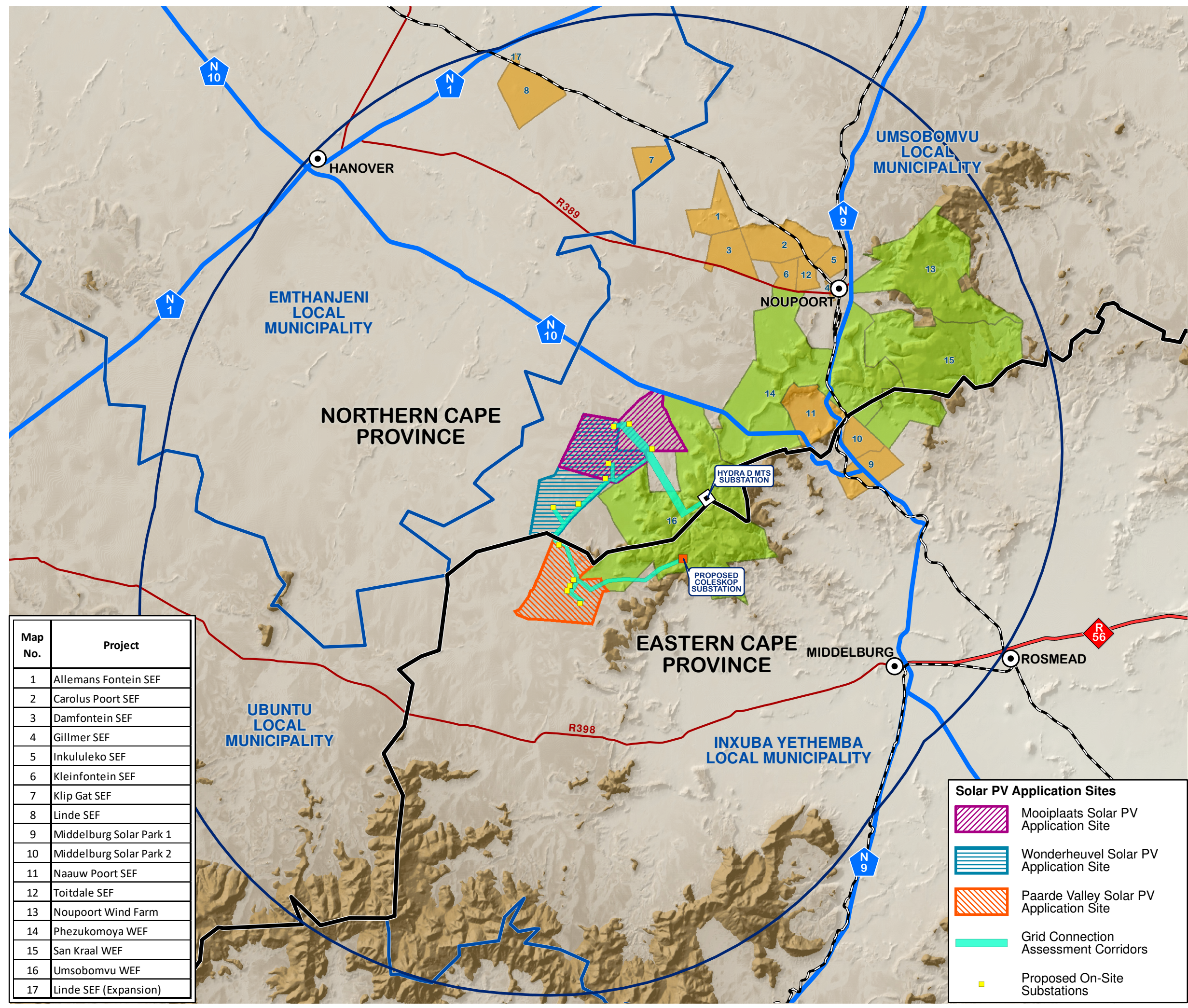
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NORTHERN CAPE
EASTERN CAPE

PROPOSED CONSTRUCTION OF THREE SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITIES NEAR NOUPOORT, NORTHERN AND EASTERN CAPE PROVINCES
RENEWABLE ENERGY PROJECTS (EXISTING AND PROPOSED)



Legend

- Local Municipal Boundaries
- National Routes
- Main Arterial Routes
- Main Roads
- Railways
- Main Towns
- 35km Radius

Renewable Energy Application Sites

- Solar
- Wind

Map No.	Project
1	Allemans Fontein SEF
2	Carolus Poort SEF
3	Damfontein SEF
4	Gillmer SEF
5	Inkululeko SEF
6	Kleinfontein SEF
7	Klip Gat SEF
8	Linde SEF
9	Middelburg Solar Park 1
10	Middelburg Solar Park 2
11	Naauw Poort SEF
12	Toitdale SEF
13	Noupoort Wind Farm
14	Phezukomoya WEF
15	San Kraal WEF
16	Umsobomvu WEF
17	Linde SEF (Expansion)

Solar PV Application Sites

- Mooiplaats Solar PV Application Site
- Wonderheuvel Solar PV Application Site
- Paarde Valley Solar PV Application Site
- Grid Connection Assessment Corridors
- Proposed On-Site Substations

SOURCE:
 DEA, 2018
 MUNICIPAL DEMARCATION BOARD, 2011
 NGI, 2014

Scale: 0 5 10 Kilometers






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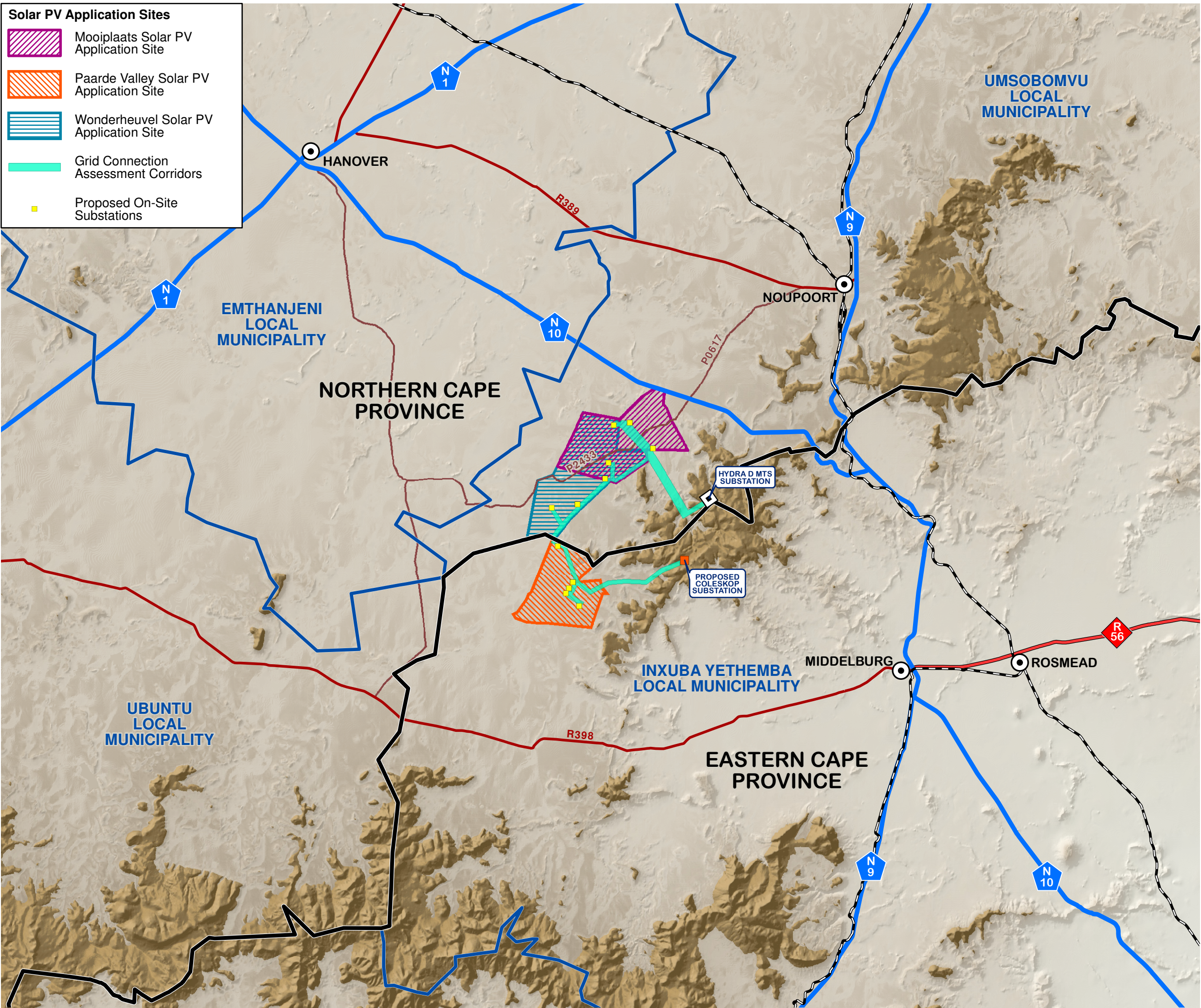
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Solar PV Application Sites

-  Mooiplaats Solar PV Application Site
-  Paarde Valley Solar PV Application Site
-  Wonderheuveld Solar PV Application Site
-  Grid Connection Assessment Corridors
-  Proposed On-Site Substations



PROPOSED CONSTRUCTION OF THREE SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITIES NEAR NOUPOORT, NORTHERN AND EASTERN CAPE PROVINCES REGIONAL CONTEXT

Legend

-  Provincial Boundary
-  Local Municipal Boundaries
-  National Routes
-  Main Arterial Routes
-  Main Roads
-  Secondary Roads
-  Railways
-  Main Towns
-  Hydra D MTS Substation
-  Proposed Coleskop WEF Substation

SOURCE: MUNICIPAL DEMARCATION BOARD, 2011
NGI, 2014



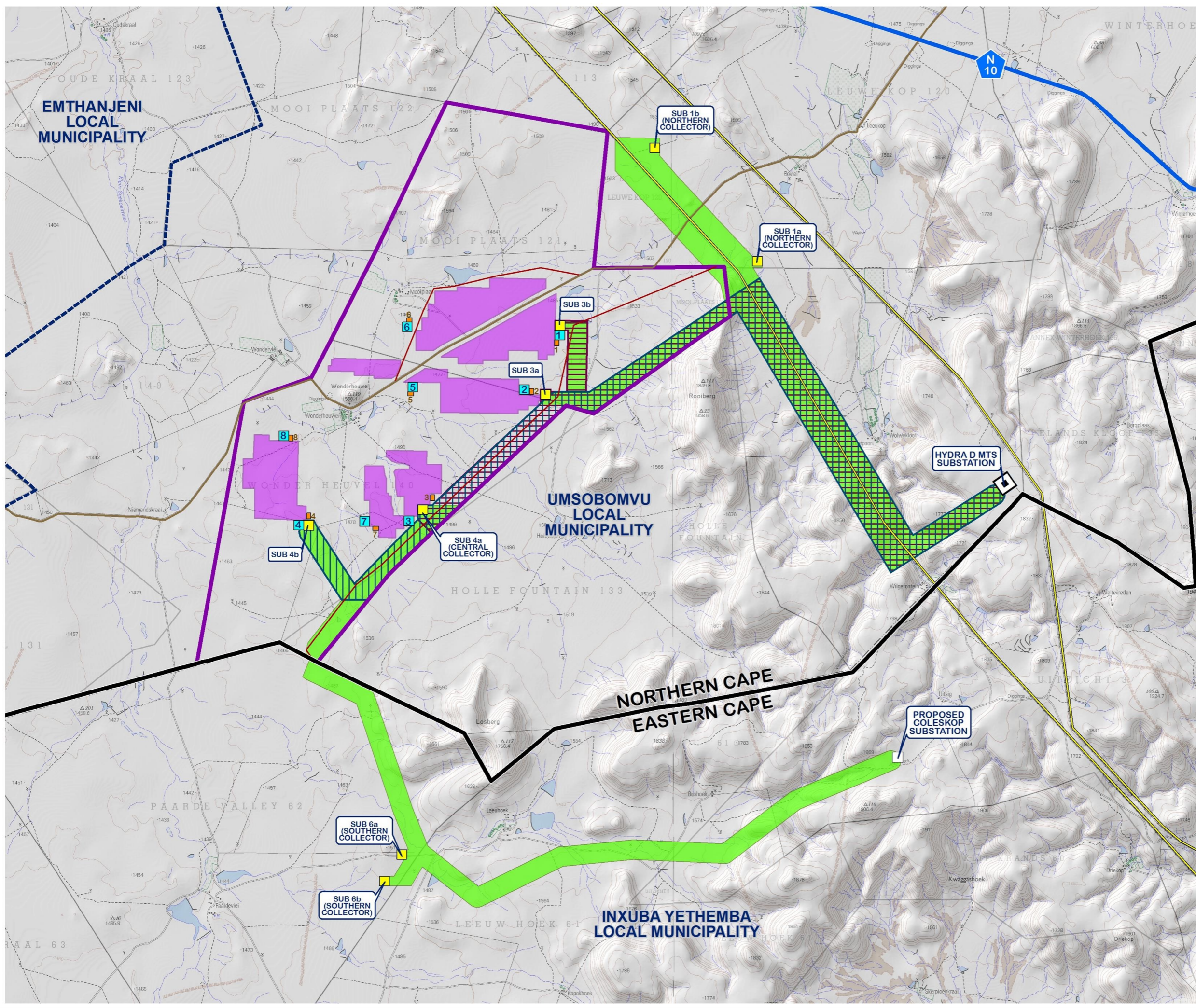
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**PROPOSED
CONSTRUCTION OF THREE
SOLAR PHOTOVOLTAIC (PV)
ENERGY FACILITIES
NEAR NOUPOORT,
NORTHERN AND EASTERN
CAPE PROVINCES
WONDERHEUVEL PROJECT**



- Legend**
- Provincial Boundary
 - Local Municipal Boundaries
 - National Route (N10)
 - Secondary Roads
 - Existing High Voltage Power Lines (400kV)
 - Hydra D MTS Substation
 - Proposed Coleskop WEF Substation
 - Wonderheuveld Solar PV Application Site
- Proposed PV Layout Components**
- PV Array Areas
 - Laydown Area Alternatives
 - O&M Site Alternatives
 - Internal Road Network
- Proposed Grid Connection**
- Power Line Corridor Option 1
 - Power Line Corridor Option 2
 - Power Line Corridor Option 3
 - Substations

N

0 1 2
Kilometers

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