

# Moeding Solar PV Facility and associated infrastructure, North West Province

Locality Map

## Legend

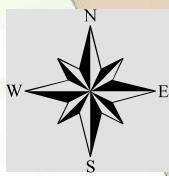
- Town
- Eskom Substation
- Railway
- National Route
- Regional Road
- Main Road
- Non-perennial River
- Perennial River
- Project Site
- Affected Property
- Farm Portion



Scale: 1:62 500  
 Projection: LO25  
 Map Ref: Moeding Regional Map 18.12.2018







MOOKODI SUBSTATION

ROSENDAL 673  
673

WATERLOO 730  
RE/3/730

WATERLOO 730  
4/730

WATERLOO 730  
RE/3/730

CHAMPIONS KLOOF 731  
1/731

N18

N18

Waterloo


















Tierkloof

Doe-Haars

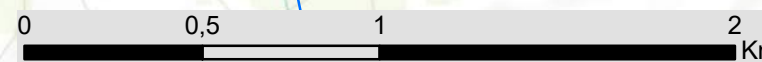
# Moeding Solar PV Facility, North West

Layout Map

## Legend

-  Eskom Substation
  -  National Route
  -  Mookodi - Magopela 132kV Power Line (to be constructed)
  -  Railway
  -  Non-perennial River
  -  Perennial River
  -  Development Area (436,6ha)
  -  Project Site (642ha)
  -  Affected Property
- Layout:**
-  Internal Access Road
  -  Power Line Alternative 2
  -  300m Corridor for Power Line Alternative 1
  -  On-site Substation
  -  Inverters
  -  O&M Building
  -  Permanent Compound Area
  -  Solar Field

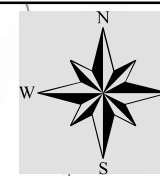
Scale: 1:21 281  
Projection: LO25  
Map Ref: Moeding Prelim  
Sensi Map 27.06.2018





# Moeding Solar PV Facility, North West Province

Environmental Sensitivity Map -  
Development Area

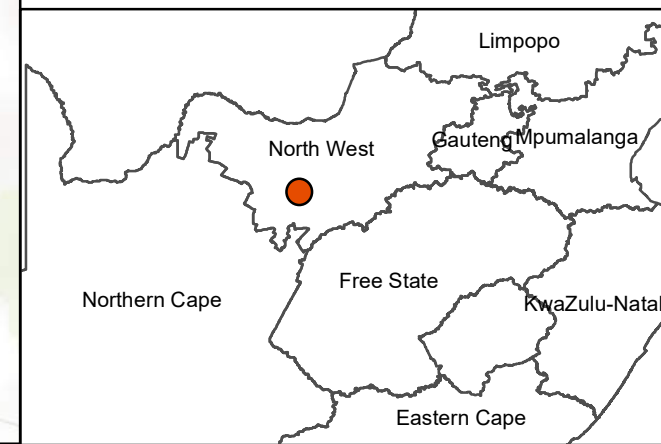


## Legend

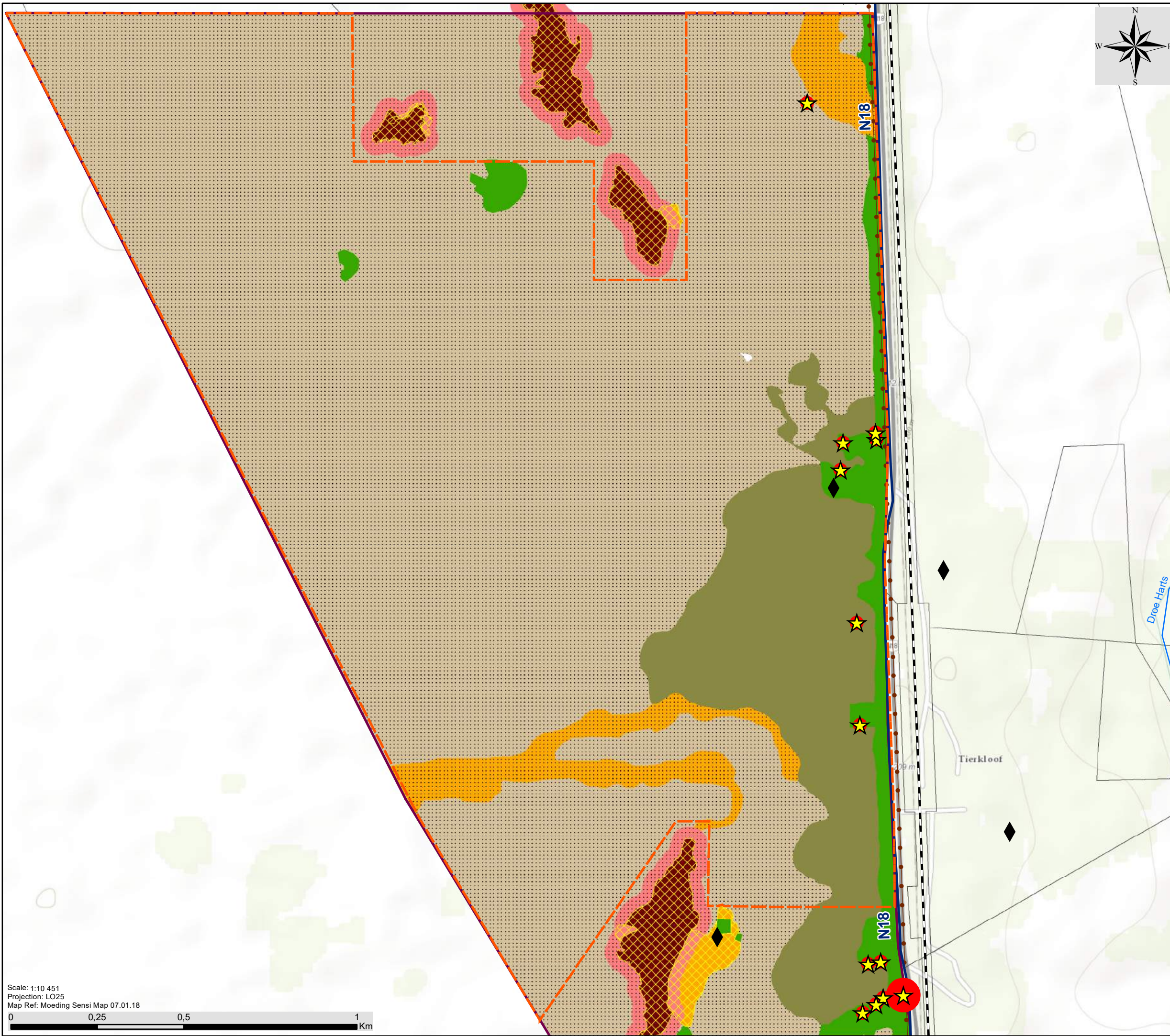
- Mookodi - Magopele 132kV (to be constructed)
- Railway
- National Route
- Non-perennial River
- Perennial River
- Development Area (436,6ha)
- Project Site (642ha)
- Farm Portion

## Environmental Sensitivities:

- Visual Receptor
- Heritage Sites
- High Heritage Sensitivity (No-go Area)
- Very High Ecological Sensitivity (No-go Area)
- High Ecological Sensitivity
- High Avifauna Sensitivity
- Medium Ecological Sensitivity
- Medium Avifauna Sensitivity
- Medium-Low Avifauna Sensitivity
- Medium-Low Ecological Sensitivity
- Low Ecological and Avifauna Sensitivity



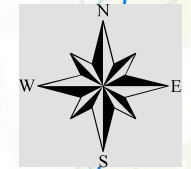
Scale: 1:10 451  
 Projection: LO25  
 Map Ref: Moeding Sensi Map 07.01.18





# Moeding Solar PV Facility, North West Province

Environmental Sensitivity Map - 300m Power Line Corridor



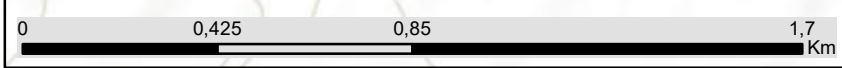
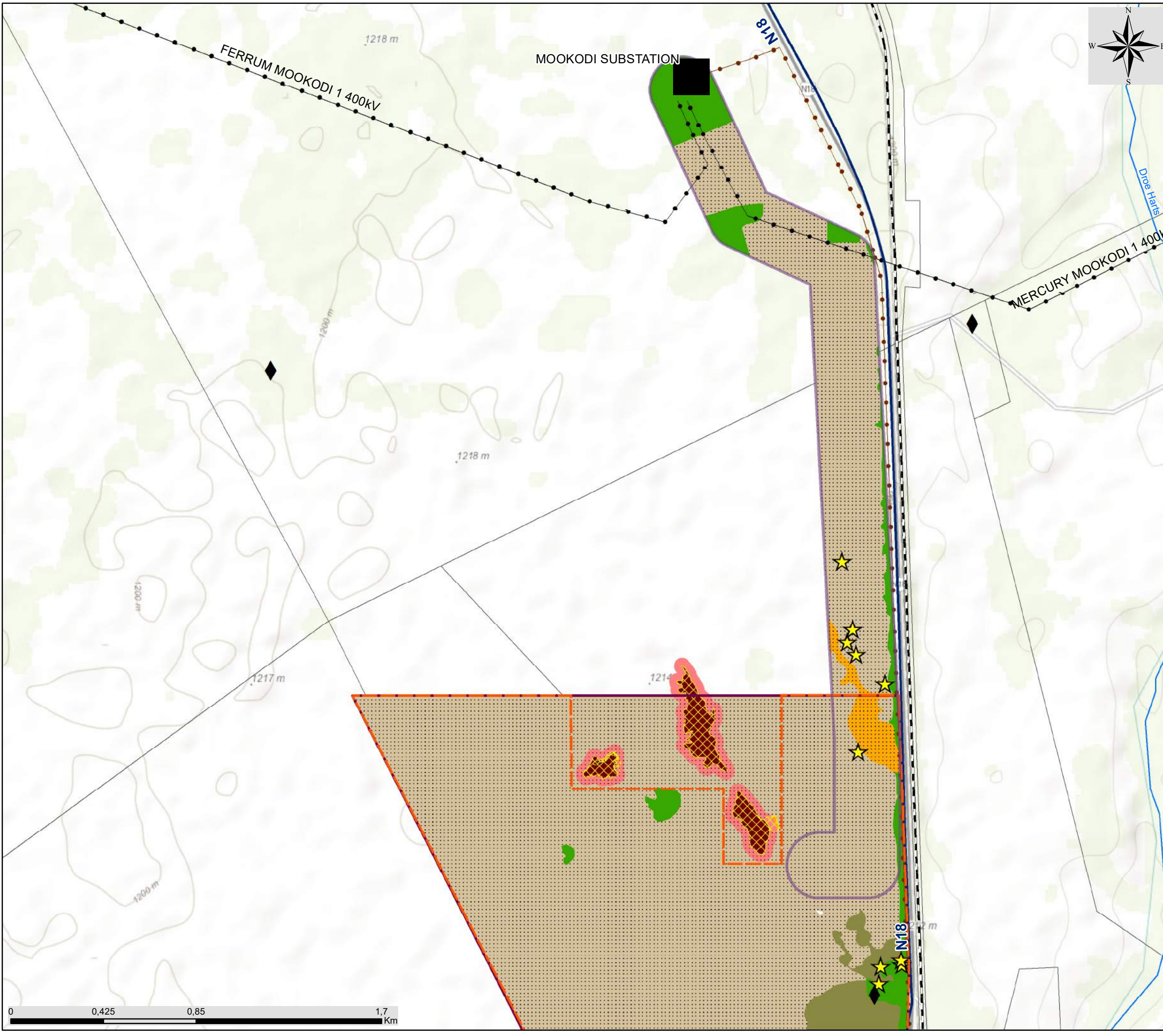
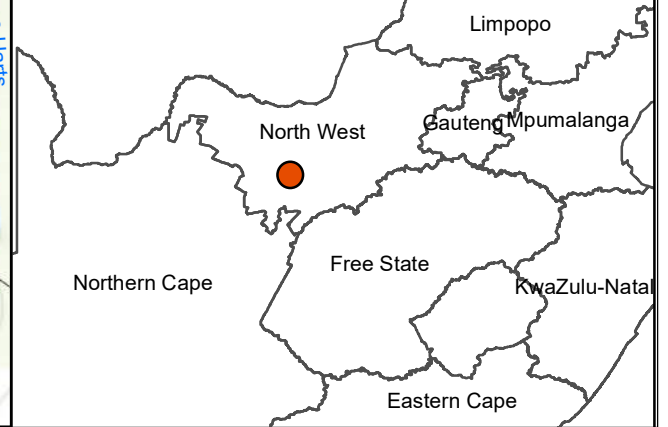
## Legend

- Eskom Substation
- Mookodi - Magopole 132kV (to be constructed)
- Railway
- National Route
- Non-perennial River
- Perennial River
- 300m Corridor for Power Line Alternative 1
- Development Area (436,6ha)
- Project Site (642ha)
- Farm Portion

## Environmental Sensitivities:

- Visual Receptor
- Heritage Sites
- High Heritage Sensitivity (No-go Area)
- Very High Ecological Sensitivity (No-go Area)
- High Ecological Sensitivity
- High Avifauna Sensitivity
- Medium Ecological Sensitivity
- Medium Avifauna Sensitivity
- Medium-Low Ecological Sensitivity
- Medium-Low Avifauna Sensitivity
- Low Ecological and Avifauna Sensitivity

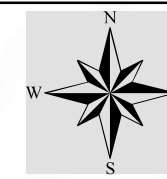
savannah environmental  
 Scale: 1:16 477  
 Projection: LO25  
 Map Ref: Moeding Corridor Sensi Map 07.01.18


















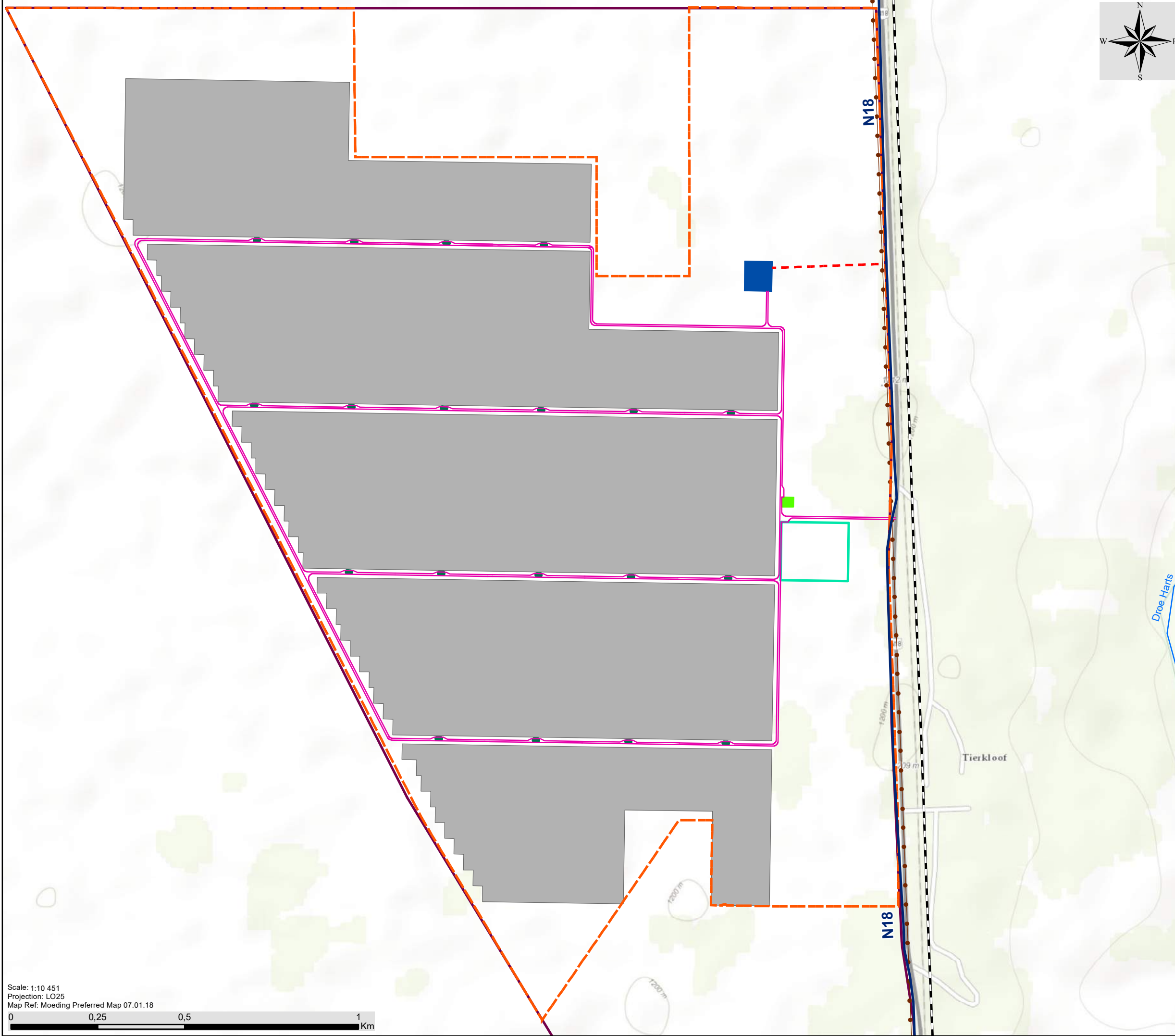
# Moeding Solar PV Facility, North West Province

## Preferred Layout Map

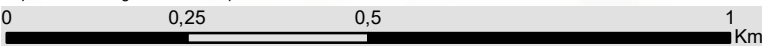


### Legend

-  National Route
  -  Mookodi - Magopelle 132kV (to be constructed)
  -  Railway
  -  Perennial River
  -  Development Area (436,6ha)
  -  Project Site (642ha)
- Layout:**
-  Internal Access Road
  -  Power Line Alternative 2 (preferred)
  -  On-site\_Substation
  -  Inverters
  -  O&M Building
  -  Permanent Compound Area
  -  Solar Field



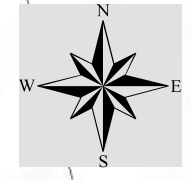
Scale: 1:10 451  
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 Map Ref: Moeding Preferred Map 07.01.18





# Moeding Solar PV Facility, North West Province

Preferred Layout and Environmental  
Sensitivity Map



## Legend

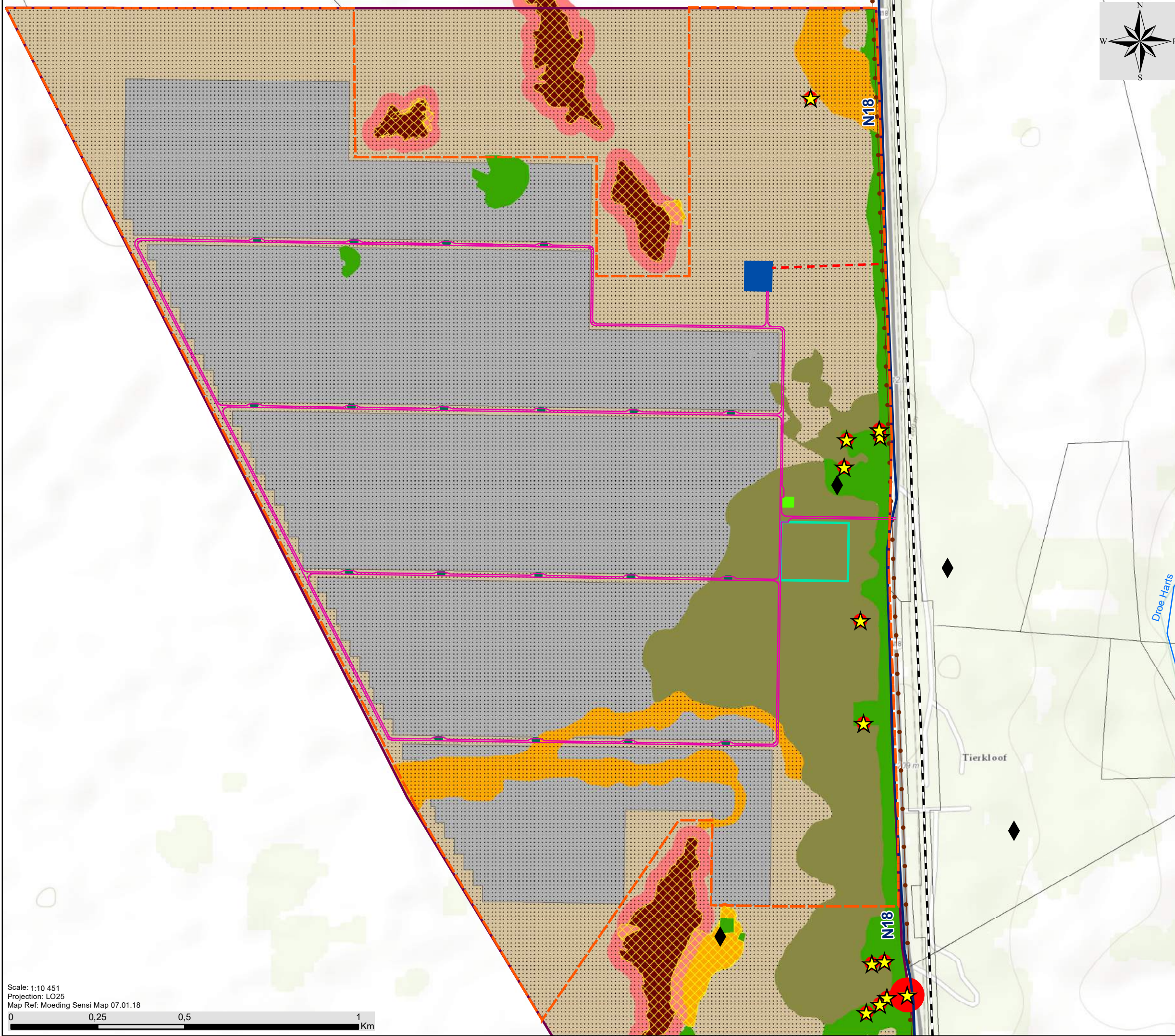
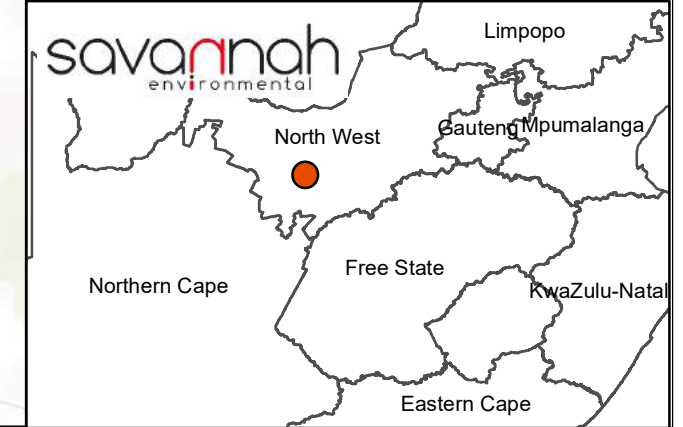
- Mookodi - Magopele 132kV (to be constructed)
- Railway
- National Route
- Perennial River
- Development Area (436,6ha)
- Project Site (642ha)
- Farm Portion

## Layout:

- Internal Access Road
- Power Line Alternative 2 (preferred)
- On-site\_Substation
- Inverters
- O&M Building
- Permanent Compound Area
- Solar Field

## Environmental Sensitivities:

- Visual Receptor
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- Medium-Low Ecological Sensitivity
- Medium-Low Avifauna Sensitivity
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Scale: 1:10 451  
 Projection: LO25  
 Map Ref: Moeding Sensi Map 07.01.18



# Moeding Solar PV Facility and associated infrastructure, North West Province

(in relation to other solar energy facilities)



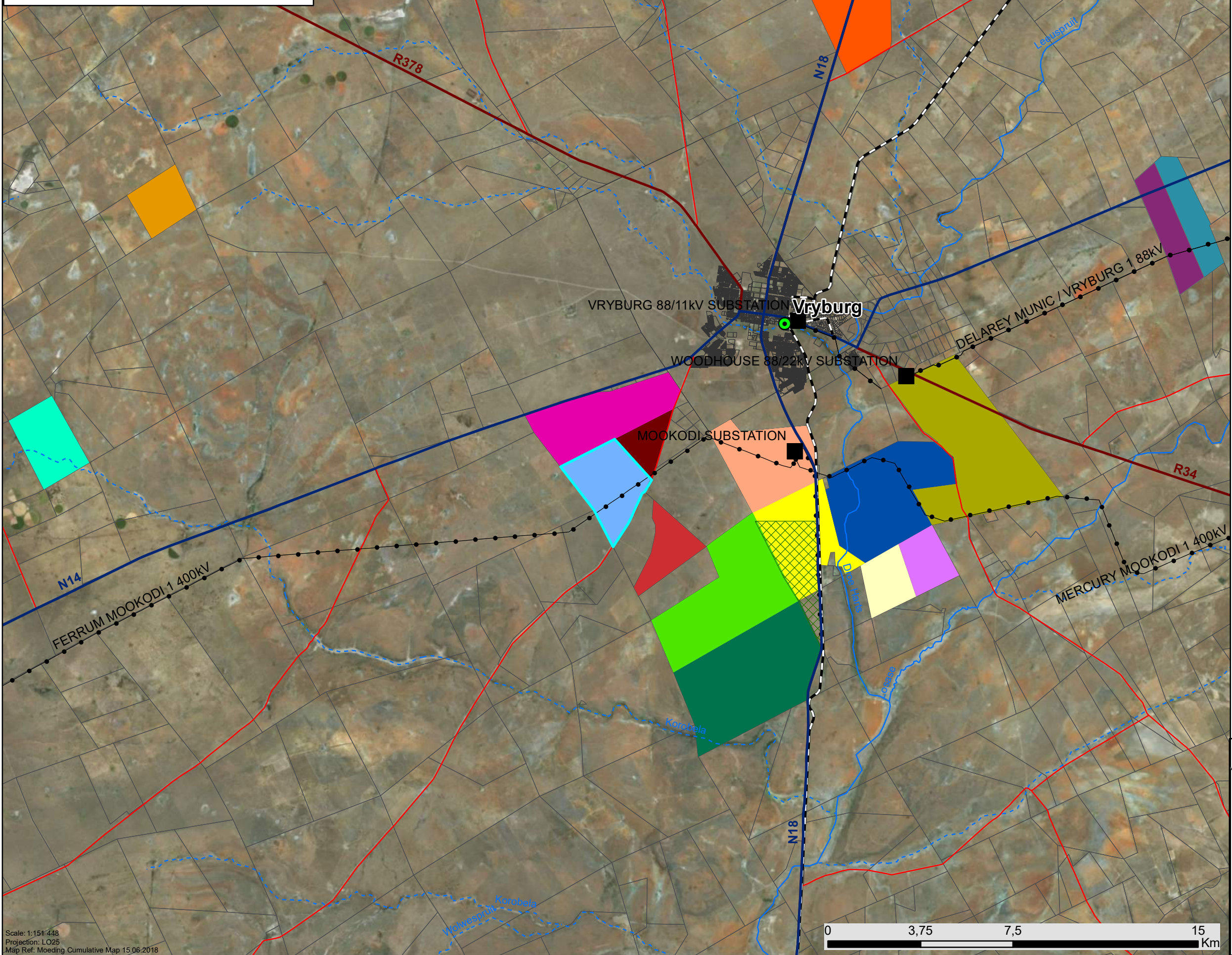
## Legend

- Town
- Eskom Substation
- Existing Power Line
- Railway
- National Route
- Regional Road
- Main Road
- Non-perennial River
- Perennial River
- Project Site
- Farm Portion

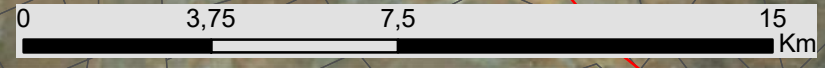
## Other Solar Energy Facilities (SEF):

(illustrations based on affected properties and not project site)

- Subsolar Sonbesie (1 x PV)
- Subsolar Rosendal (1 x PV)
- Subsolar Protea (1x PV)
- Subsolar Waterloo (1 x PV)(PB4)
- Subsolar Khubu (1 x PV)
- Subsolar Gamma (1x PV)
- Biotherm Sedawo (3 x PV)
- Kabi Solar Tiger Kloof (1 x PV)
- Genesis Eco-Energy Woodhouse (2 x PV)
- ABO Wind Vryburg Solar 1 (1 x PV)
- ABO Wind Vryburg Solar 2 & 3 (2 x PV)
- AMDA Klondike (3 x PV)
- Alpha Solar Power Plant (1 x PV)
- Meerkat Solar Power Plant (1 x PV)
- Carocraft Solar Park (1 x PV)
- 60MW Carocraft PV Solar Park (1 x PV)
- Renewable Energy Generation Project (1 x PV)



Scale: 1:151 448  
 Projection: LO25  
 Map Ref: Moeding Cumulative Map 15.06.2018





**Appendix O: Site Coordinates**

*Corner point coordinates for Affected Properties (Starting in the northern most corner moving clockwise):*

| <b>Coordinates</b> |                     |                      |
|--------------------|---------------------|----------------------|
|                    | <b>Latitude (S)</b> | <b>Longitude (E)</b> |
| 1                  | 26° 59' 50,156" S   | 24° 43' 7,540" E     |
| 2                  | 27° 0' 6,203" S     | 24° 43' 23,033" E    |
| 3                  | 26° 59' 58,389" S   | 24° 45' 2,234" E     |
| 4                  | 27° 0' 25,859" S    | 24° 45' 12,862" E    |
| 5                  | 27° 0' 32,933" S    | 24° 45' 13,808" E    |
| 6                  | 27° 1' 11,632" S    | 24° 45' 14,111" E    |
| 7                  | 27° 1' 7,737" S     | 24° 45' 23,053" E    |
| 8                  | 27° 2' 36,085" S    | 24° 45' 47,340" E    |
| 9                  | 27° 2' 59,234" S    | 24° 46' 25,258" E    |
| 10                 | 27° 3' 14,188" S    | 24° 45' 55,910" E    |
| 11                 | 27° 3' 3,736" S     | 24° 45' 50,976" E    |
| 12                 | 27° 3' 3,123" S     | 24° 45' 42,042" E    |
| 13                 | 27° 2' 44,455" S    | 24° 45' 40,845" E    |
| 14                 | 27° 2' 44,697" S    | 24° 45' 34,519" E    |
| 15                 | 27° 3' 2,265" S     | 24° 45' 29,520" E    |
| 16                 | 27° 3' 1,644" S     | 24° 45' 20,439" E    |
| 17                 | 27° 2' 59,323" S    | 24° 45' 20,346" E    |
| 18                 | 27° 2' 59,423" S    | 24° 45' 17,046" E    |
| 19                 | 27° 3' 18,986" S    | 24° 45' 17,806" E    |
| 20                 | 27° 3' 18,955" S    | 24° 45' 18,885" E    |
| 21                 | 27° 3' 25,943" S    | 24° 45' 19,148" E    |
| 22                 | 27° 3' 26,011" S    | 24° 45' 18,080" E    |
| 23                 | 27° 3' 30,875" S    | 24° 45' 18,443" E    |
| 24                 | 27° 3' 30,781" S    | 24° 45' 19,531" E    |
| 25                 | 27° 4' 54,190" S    | 24° 45' 23,057" E    |
| 26                 | 27° 3' 19,076" S    | 24° 44' 27,963" E    |
| 27                 | 27° 0' 6,385" S     | 24° 42' 36,359" E    |

*Corner point coordinates for Project Site (Starting in the north-eastern corner moving clockwise):*

| <b>Coordinates</b> |                     |                      |
|--------------------|---------------------|----------------------|
|                    | <b>Latitude (S)</b> | <b>Longitude (E)</b> |
| 1                  | 27° 2' 3,934" S     | 24° 45' 14,626" E    |
| 2                  | 27° 3' 31,769" S    | 24° 45' 17,177" E    |
| 3                  | 27° 3' 38,480" S    | 24° 45' 18,323" E    |
| 4                  | 27° 4' 51,518" S    | 24° 45' 20,540" E    |
| 5                  | 27° 3' 49,384" S    | 24° 44' 47,010" E    |
| 6                  | 27° 2' 3,762" S     | 24° 43' 43,814" E    |

*Corner point coordinates for Development Area (Starting in the north-eastern corner moving clockwise):*

| <b>Coordinates</b> |                     |                      |
|--------------------|---------------------|----------------------|
|                    | <b>Latitude (S)</b> | <b>Longitude (E)</b> |
| 1                  | 27° 2' 3,934" S     | 24° 45' 14,626" E    |
| 2                  | 27° 3' 27,877" S    | 24° 45' 16,780" E    |
| 3                  | 27° 3' 27,740" S    | 24° 44' 57,217" E    |
| 4                  | 27° 3' 19,791" S    | 24° 44' 57,369" E    |
| 5                  | 27° 3' 19,784" S    | 24° 44' 53,882" E    |
| 6                  | 27° 3' 38,435" S    | 24° 44' 39,553" E    |



|           |                  |                   |
|-----------|------------------|-------------------|
| <b>7</b>  | 27° 2' 3,762" S  | 24° 43' 43,814" E |
| <b>8</b>  | 27° 2' 3,846" S  | 24° 44' 20,107" E |
| <b>9</b>  | 27° 2' 17,757" S | 24° 44' 20,241" E |
| <b>10</b> | 27° 2' 17,803" S | 24° 44' 45,435" E |
| <b>11</b> | 27° 2' 28,944" S | 24° 44' 45,410" E |
| <b>12</b> | 27° 2' 28,961" S | 24° 44' 55,086" E |
| <b>13</b> | 27° 2' 3,860" S  | 24° 44' 55,122" E |

*Power Line Alternative 1:*

| <b>Coordinates</b>                |                     |                      |
|-----------------------------------|---------------------|----------------------|
|                                   | <b>Latitude (S)</b> | <b>Longitude (E)</b> |
| <b>Start (On-site Substation)</b> | 27° 2' 28,199" S    | 24° 45' 3,740" E     |
| <b>Middle</b>                     | 27° 1' 27,789" S    | 24° 45' 6,829" E     |
| <b>End</b>                        | 27° 0' 33,769" S    | 24° 44' 38,873" E    |

*Power Line Alternative 2 coordinates:*

| <b>Coordinates</b>                |                     |                      |
|-----------------------------------|---------------------|----------------------|
|                                   | <b>Latitude (S)</b> | <b>Longitude (E)</b> |
| <b>Start (On-site Substation)</b> | 27° 2' 28,199" S    | 24° 45' 3,740" E     |
| <b>Middle</b>                     | 27° 2' 28,014" S    | 24° 45' 9,711" E     |
| <b>End</b>                        | 27° 2' 27,878" S    | 24° 45' 15,550" E    |