

**MAMATWAN MANGANESE
SOUTH AFRICA (Pty) Ltd.
Proposed Site for Manganese
Mine**

Northern Cape
Biome Map

Legend

Proposed Site: Farm 331 MAMATWAN

Rivers

Biome

- I. Coastal Tropical Forest Types
- II. Inland Tropical Forest Types
- III. Tropical Bush and Savanna Type (Bushveld)
- IIIA. False Bushveld Types
- IV. Karoo and Karroid Types
- IVA. False Karoo Types
- V. Temperate and Transitional Forest and Scrub Types
- VI. Pura Grassveld Types
- VIA. False Grassveld Types
- VII. Sclerophytous Bush Types
- VIIA. False Sclerophytous Bush Types



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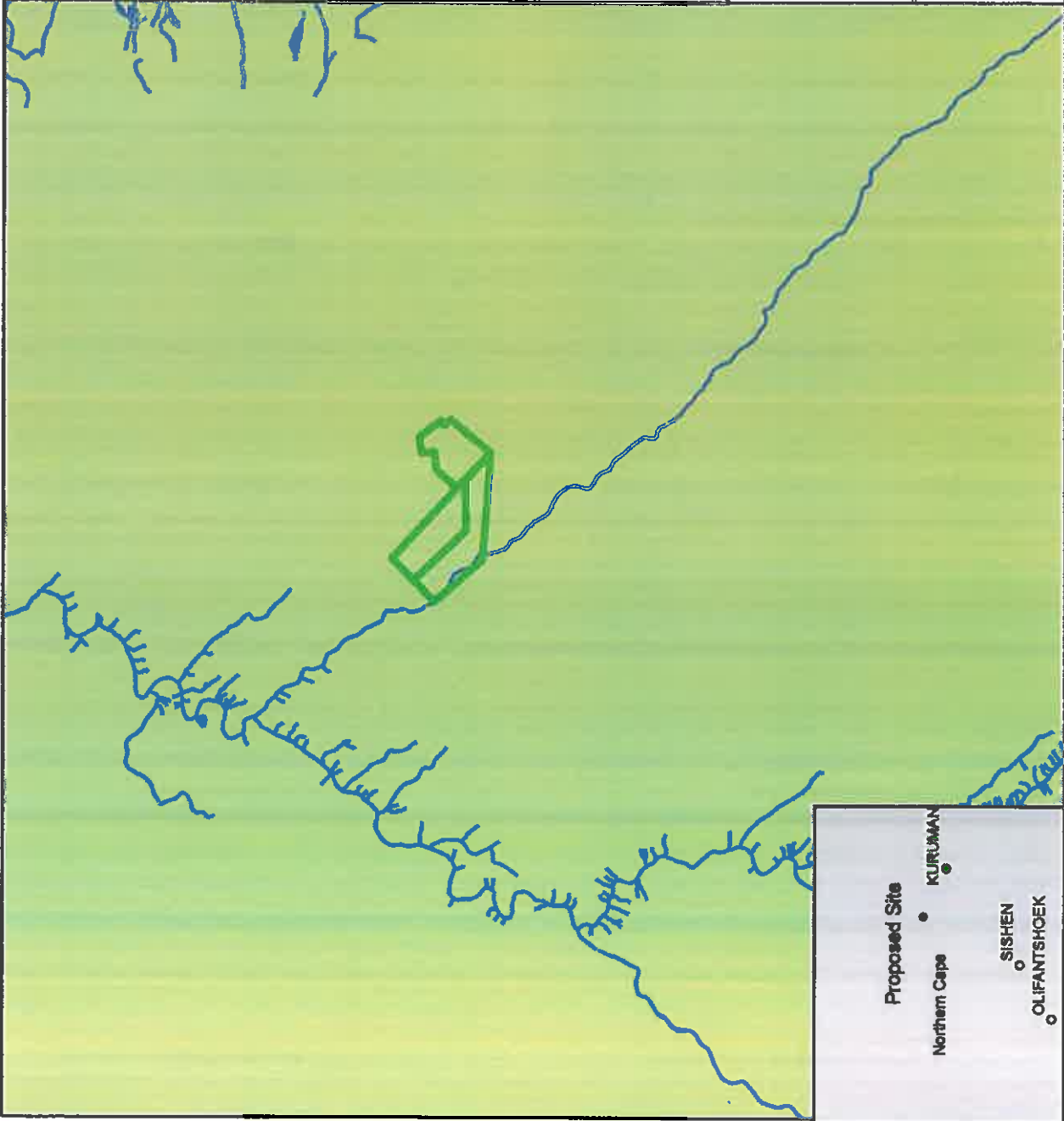
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**MAMATWAN MANGANESE
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Proposed Site for Manganese
Mine**

Northern Cape
Catchment Map

Legend

 Proposed Site: Farm 331 MAMATWAN



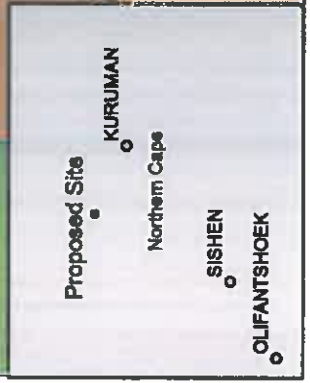
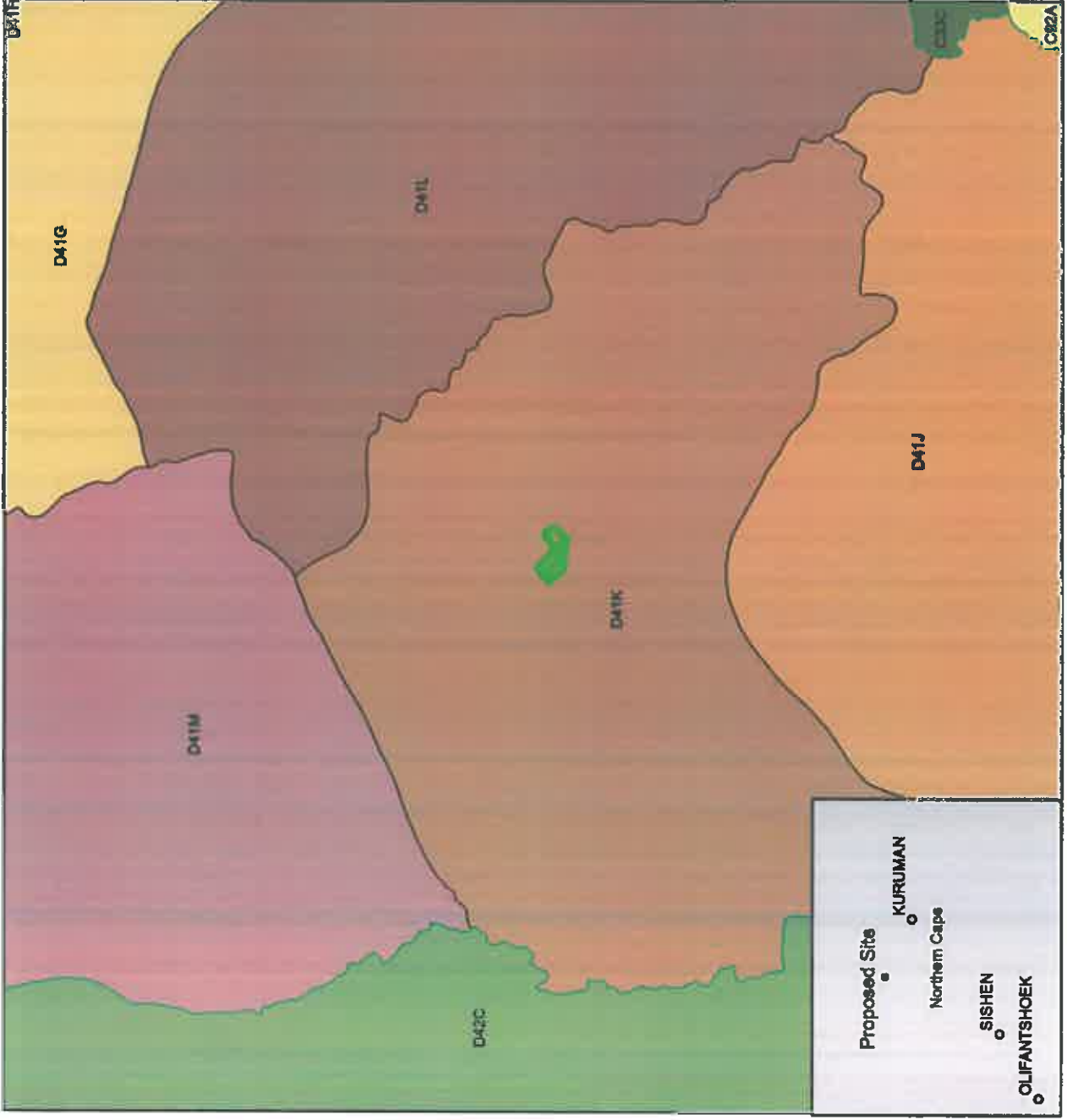
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Northern Cape
Evaporation Map

Legend

Proposed Site: Farm 331 MAMATWAN

River

Railway

Roads

Evaporation

0 - 1400 mm

1401 - 1600 mm

1601 - 1800 mm

1801 - 2000 mm

2001 - 2200 mm

2201 - 2400 mm

> 2400 mm



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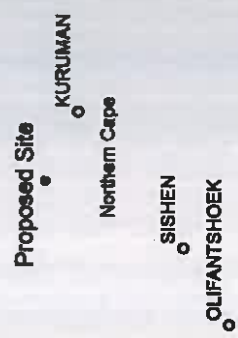
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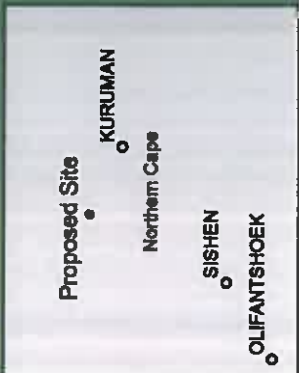



**MAMATWAN MANGANESE
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Proposed Site for Manganese
Mine**

Northern Cape
Geological Map

Legend

-  Proposed Site: Farm 331 MAMATWAN
 -  River
 -  Railway
 -  Roads
- Lithology**
-  Siliciclastic rocks



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Kilometers

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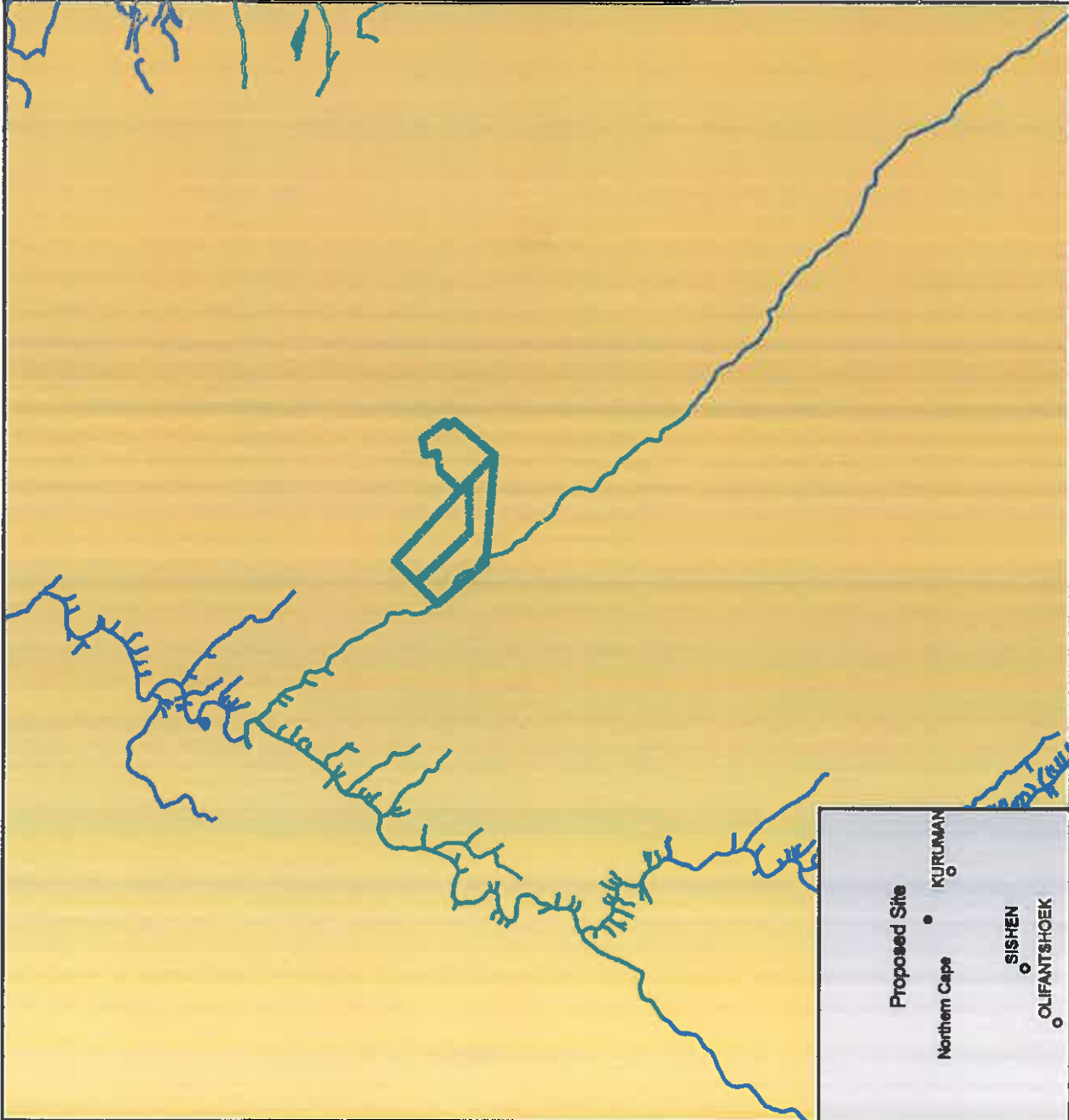
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Northern Cape
Land use Map



Legend

Proposed Site: Farm 331 MAMATWAN

Rivers

TYPE

- Cattle
- Diverse
- Forestry
- Fruit
- Grains
- None
- Sheep
- Subsistence
- Sugar
- Vegetables



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Proposed Site for Manganese
Mine**

Northern Cape
Locality Map

Legend

-  Railway
-  Roads
-  River
-  Proposed Site: Farm 331 MAMATWAN



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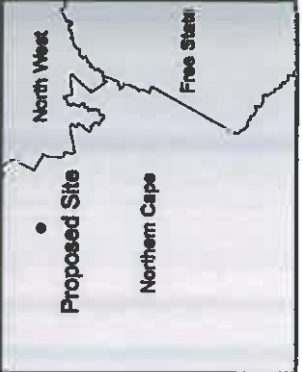
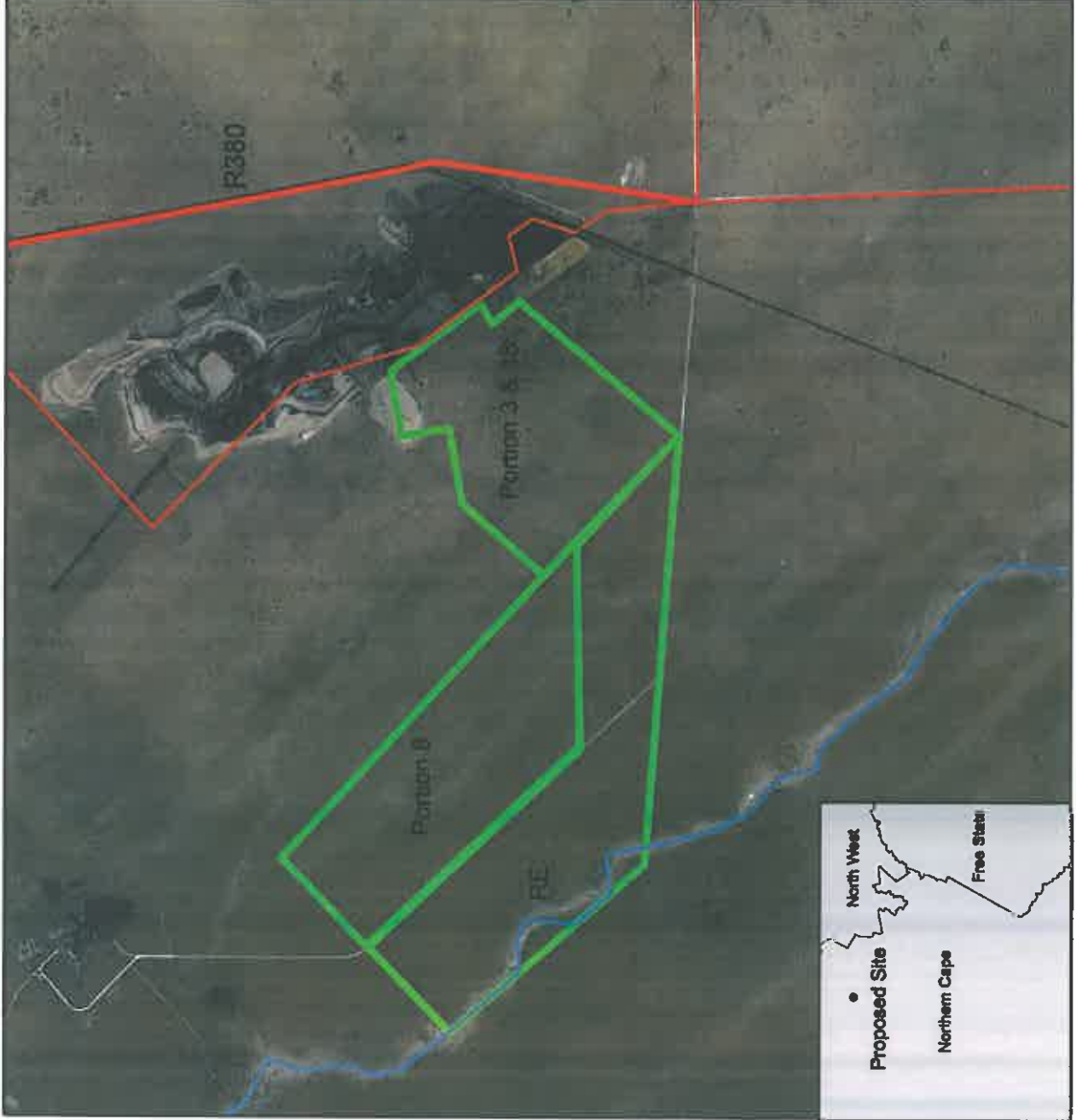


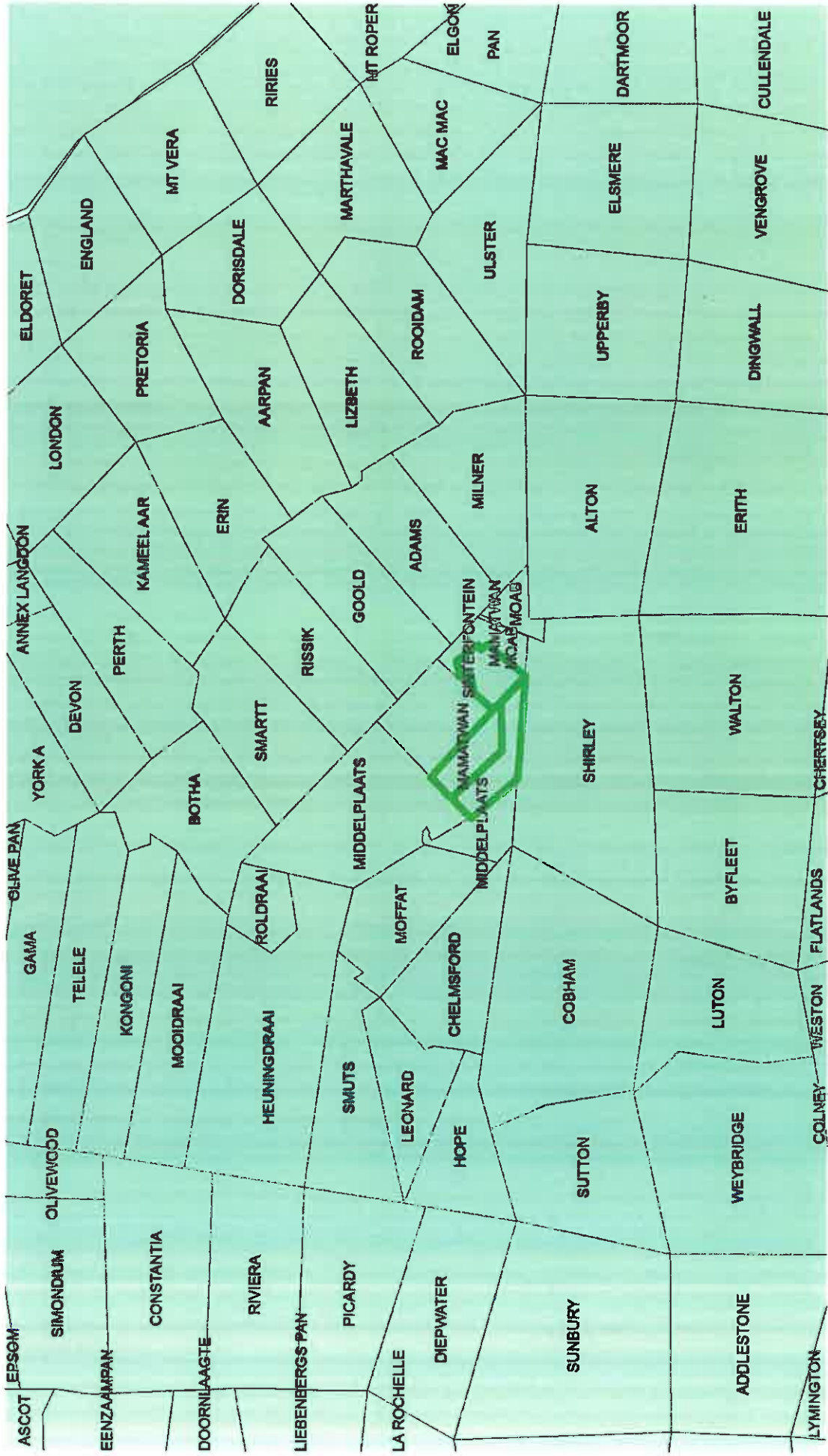
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**MAMATWAN MANGANESE
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Proposed Site for Manganese
Mine**










Northern Cape
Rainfall Erosivity Map

Legend

Proposed Site: Farm 331 MAMATWAN

-  Proposed Site
-  River
-  Railway
-  Roads

Rainfall Erosivity

-  0 - 100 mm
-  101 - 200 mm
-  201 - 300 mm
-  301 - 400 mm
-  401 - 500 mm
-  501 - 600 mm
-  601 - 700 mm
-  701 - 800 mm
-  > 800 mm



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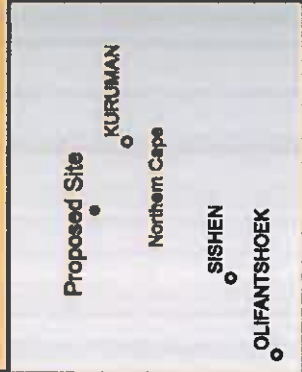
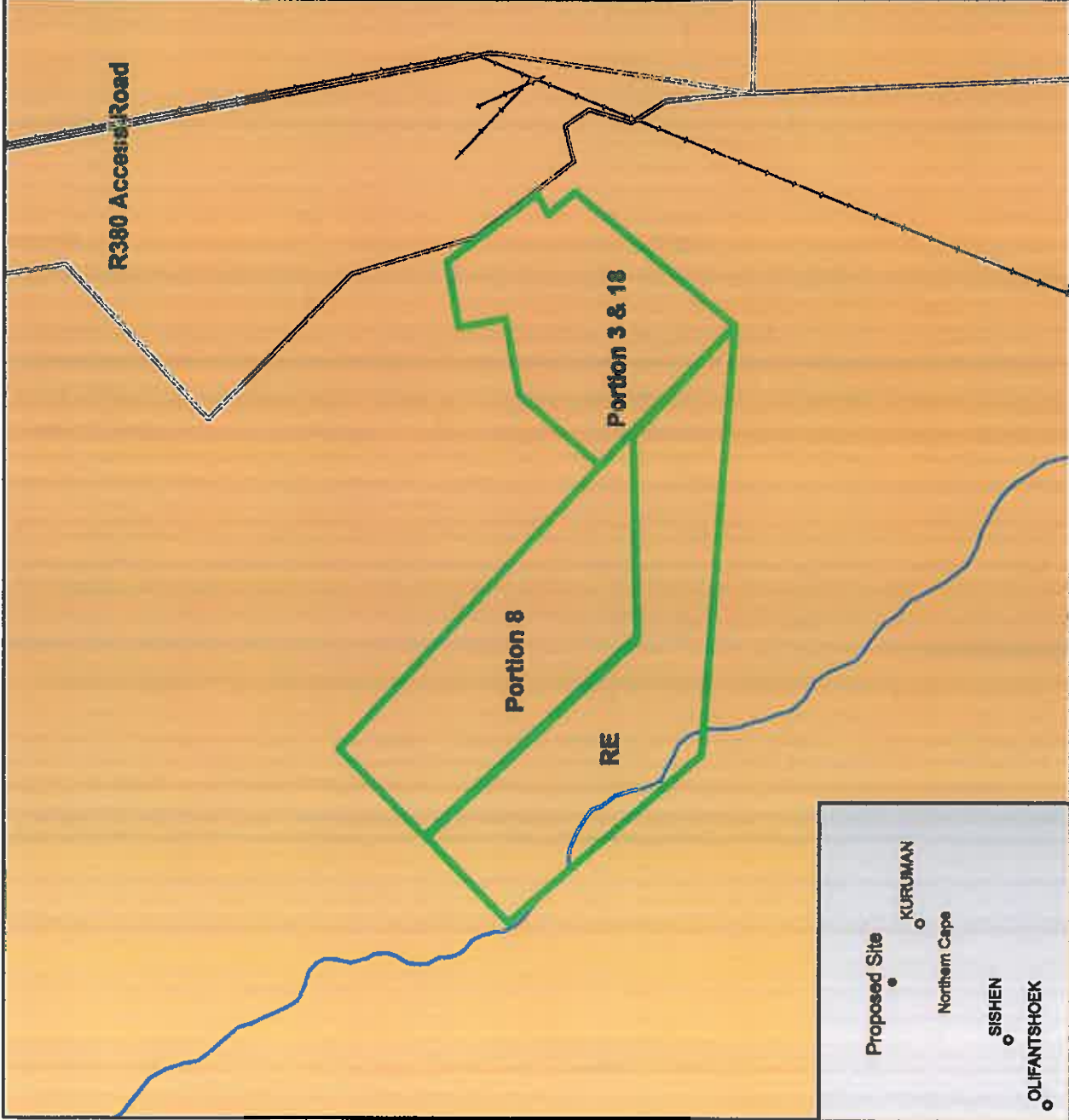
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Northern Cape
Soil CEC Map

Legend

-  Proposed Site: Farm 331 MAMATWAN
-  River
-  Railway
-  Roads

Cation Exchange Capacity

-  0 - 3.0
-  10.1 - 15
-  15.1 - 25
-  3.1 - 6.0
-  6.1 - 10
-  > 25



0.7 0.35 0 0.7



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