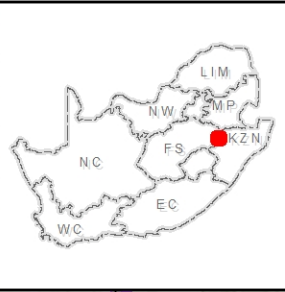
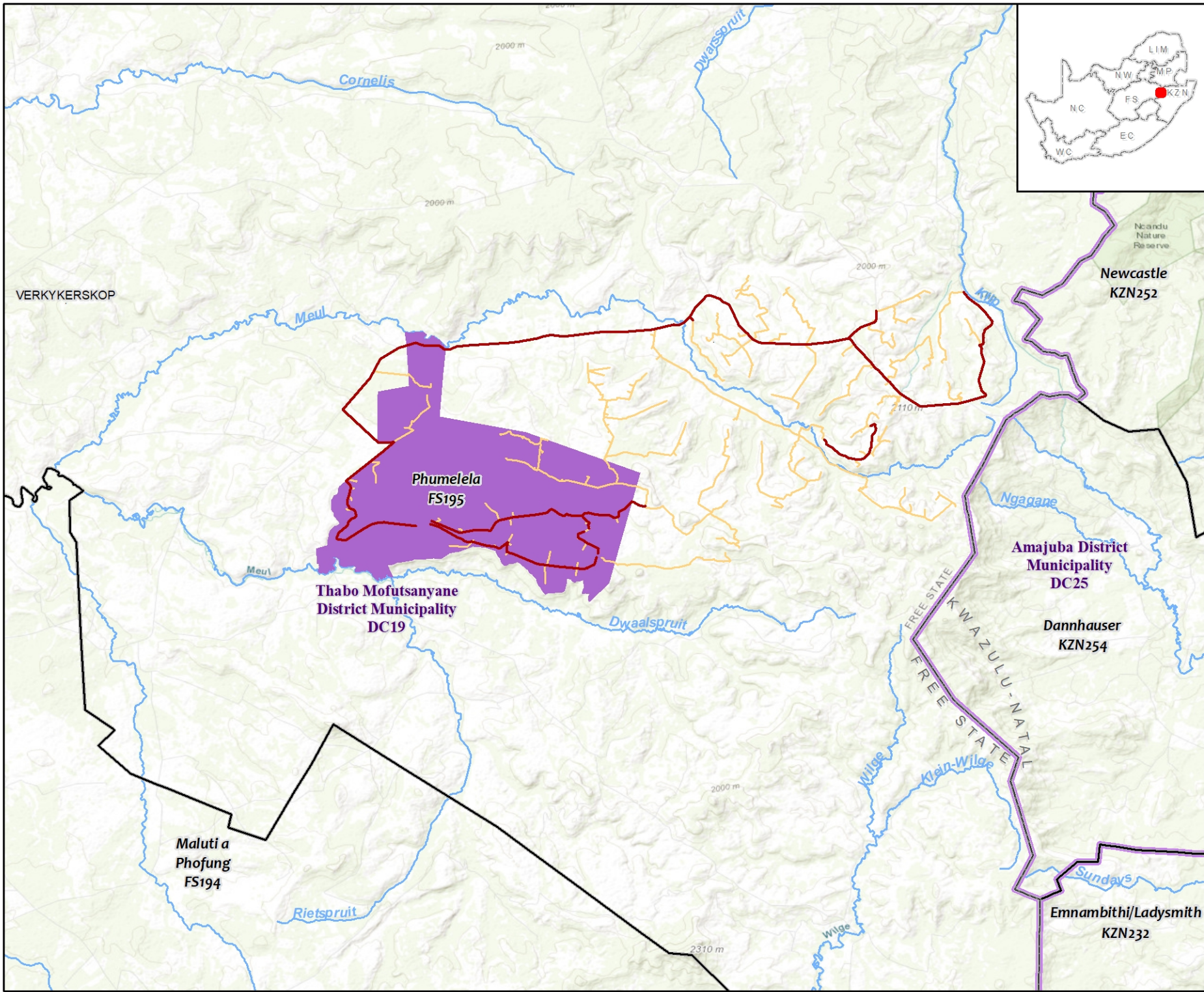


Appendix D

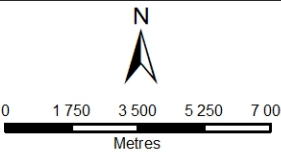
MAPS





MULILO
GROOTHOEK WEF CLUSTER

- Legend**
- Towns - intermediate
 - Major Rivers
 - Proposed Roads
 - Existing Roads
 - Local Municipalities
 - District Municipalities
 - WEF Clusters**
 - Groothoek WEF



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PROJECTION: GCS WGS 1984

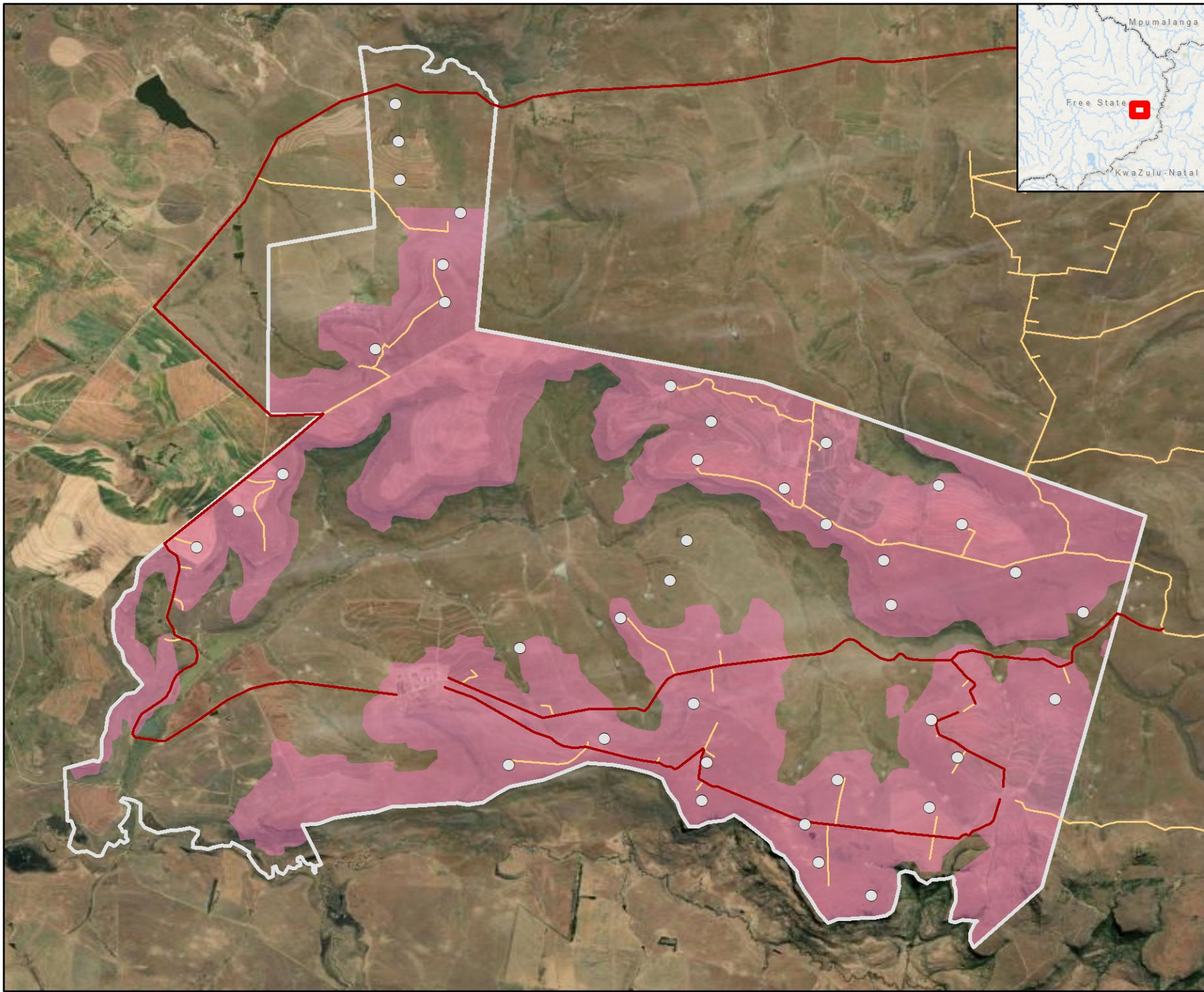
PROJECT TITLE: VERKYKERSKOP WEF CLUSTER EA

SCALE: 1:200 000 **DRAWN BY:** KM

DATE: 2024/09/13 **REVIEWED BY:** MG

FIGURE NO: **PROJECT NO:** 41106427 **REV:**

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MULILO
GROOTHOEK WEF CLUSTER

Legend

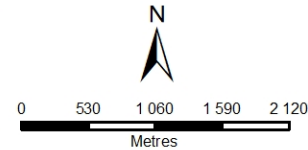
- Groothoek WEF
- Turbine Locations

Roads

- Existing Roads
- Proposed Roads

Likely buildable area

- Groothoek



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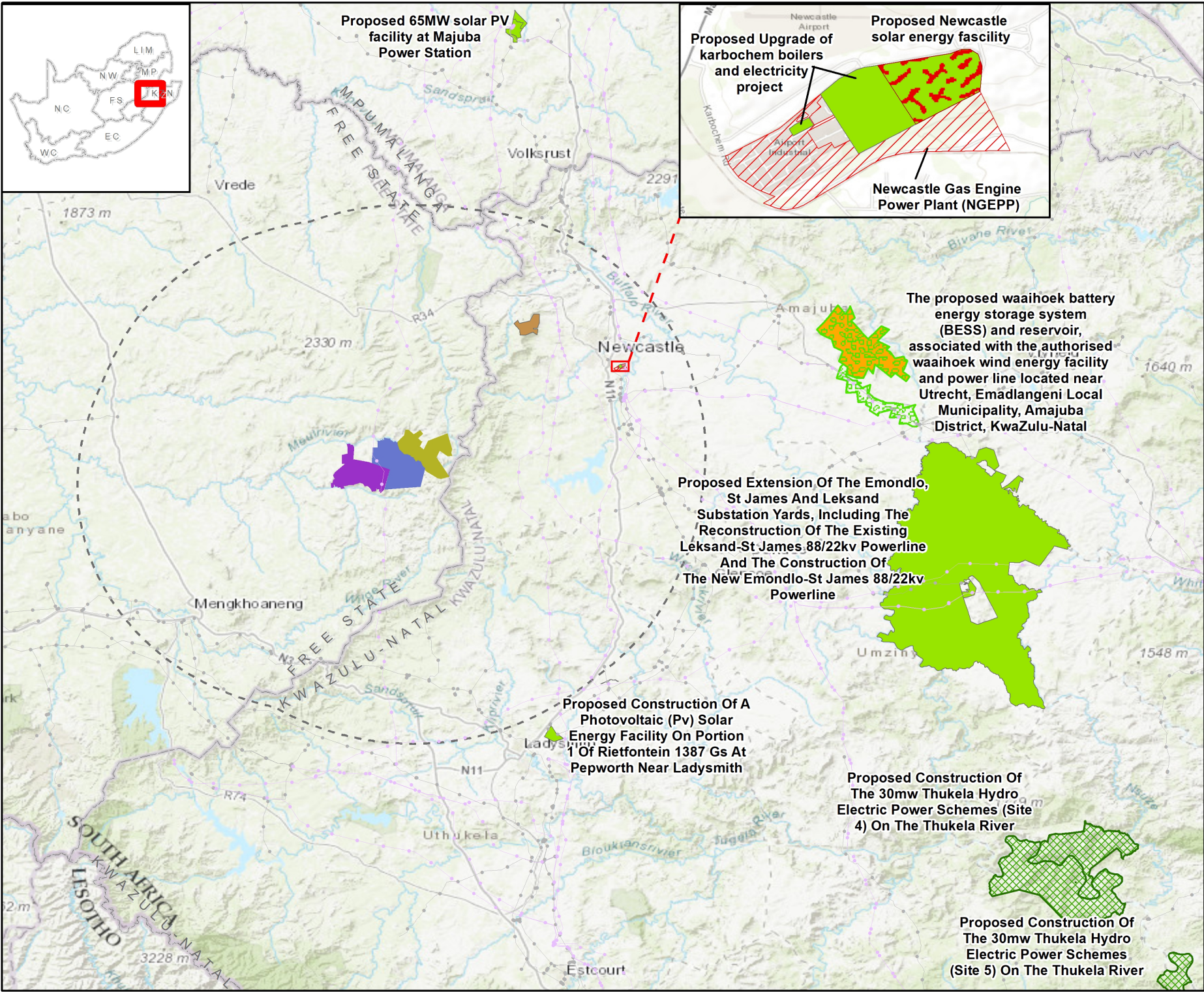
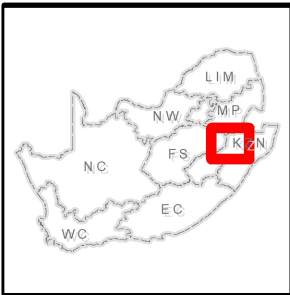
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PROJECTION: GCS WGS 1984

PROJECT TITLE: VERKERSKOP WEF CLUSTER EA

SCALE: 1:60 000	DRAWN BY: KM		
DATE: 2024/09/13	REVIEWED BY: M G		
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MULILO

VERKYKERSKOP

CUMULATIVE MAP

Legend

Powerlines (TX)

Powerlines (HV)

WEF Clusters

Groothoek WEF

Kromhof WEF

Normandien WEF

50 km Buffer

Renewable Energy 2024 Q2

Refused, Wind

Approved, Wind

Approved, PV

Approved, Hydro

In process, PV

Refused, Biomass Biofuels

Refused, PV

N

0 9 600 19 200 28 800 38 400

Metres

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PROJECT TITLE: VERKYKERSKOP WEF CLUSTER EA

SCALE: 1:1 000 000

DRAWN BY: KM

DATE: 2024/09/19

REVIEWED BY: MG

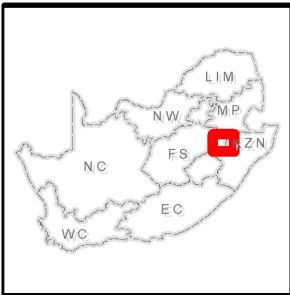
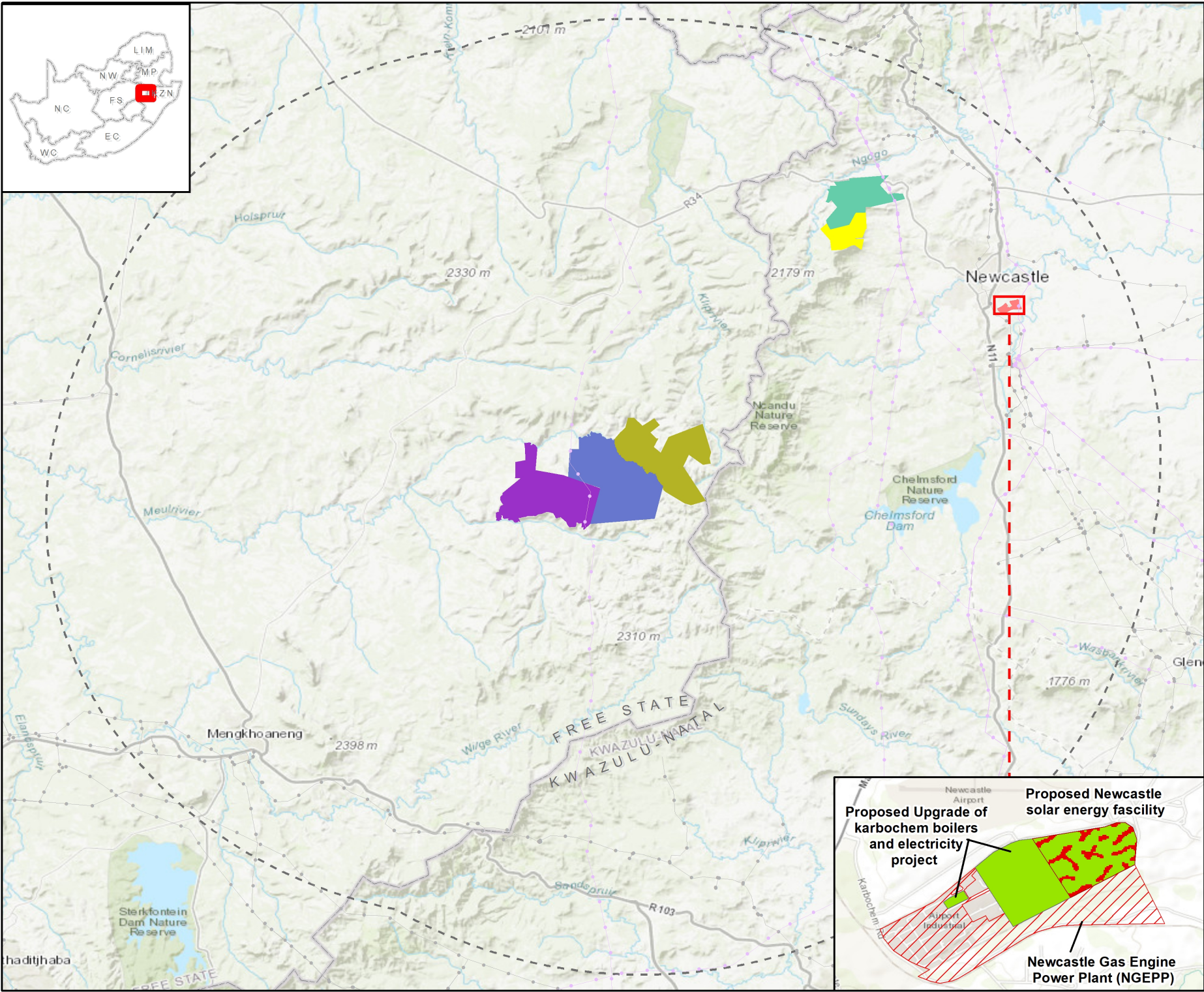
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MULILO

VERKYKERSKOP CUMULATIVE MAP

Legend

- Powerlines (TX)
- Powerlines (HV)
- 50 km Buffer
- Proposed Newcastle Solar Energy Facility
- Mulilo Newcastle Wind Power WEF
- Mulilo Newcastle Wind Power 2 WEF

WEF Clusters

- Groothoek WEF
- Kromhof WEF
- Normandien WEF

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PROJECT TITLE: VERKYKERSKOP WEF CLUSTER EA

SCALE: 1:620 000	DRAWN BY: KM	
DATE: 2024/09/19	REVIEWED BY: MG	
FIGURE NO:	PROJECT NO: 41106427	REV:

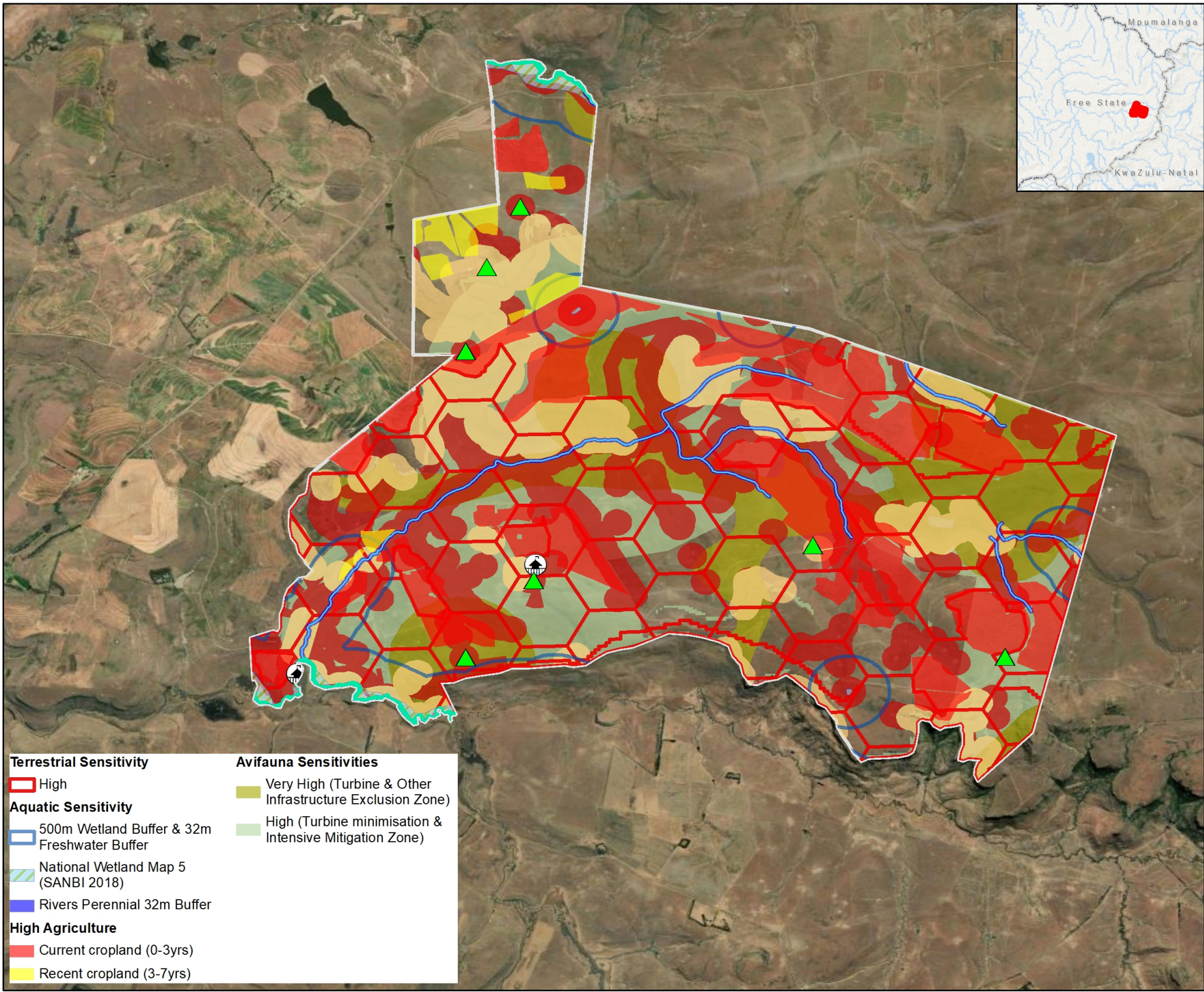
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Proposed Upgrade of karbochem boilers and electricity project

Proposed Newcastle solar energy facility

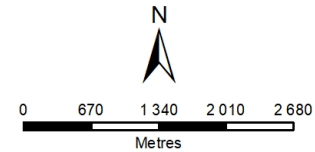
Newcastle Gas Engine Power Plant (NGEPP)



MULILO
GROOTHOEK WEF SENSITIVITY

Legend

- Groothoek WEF
- Heritage
- Groothoek Receptors
- Freshwater
- AB - Largely natural with few modifications
- Bat Sensitivity**
 - High
 - Medium-High



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PROJECT TITLE: VERKYEKRSKOP WEF CLUSTER EA

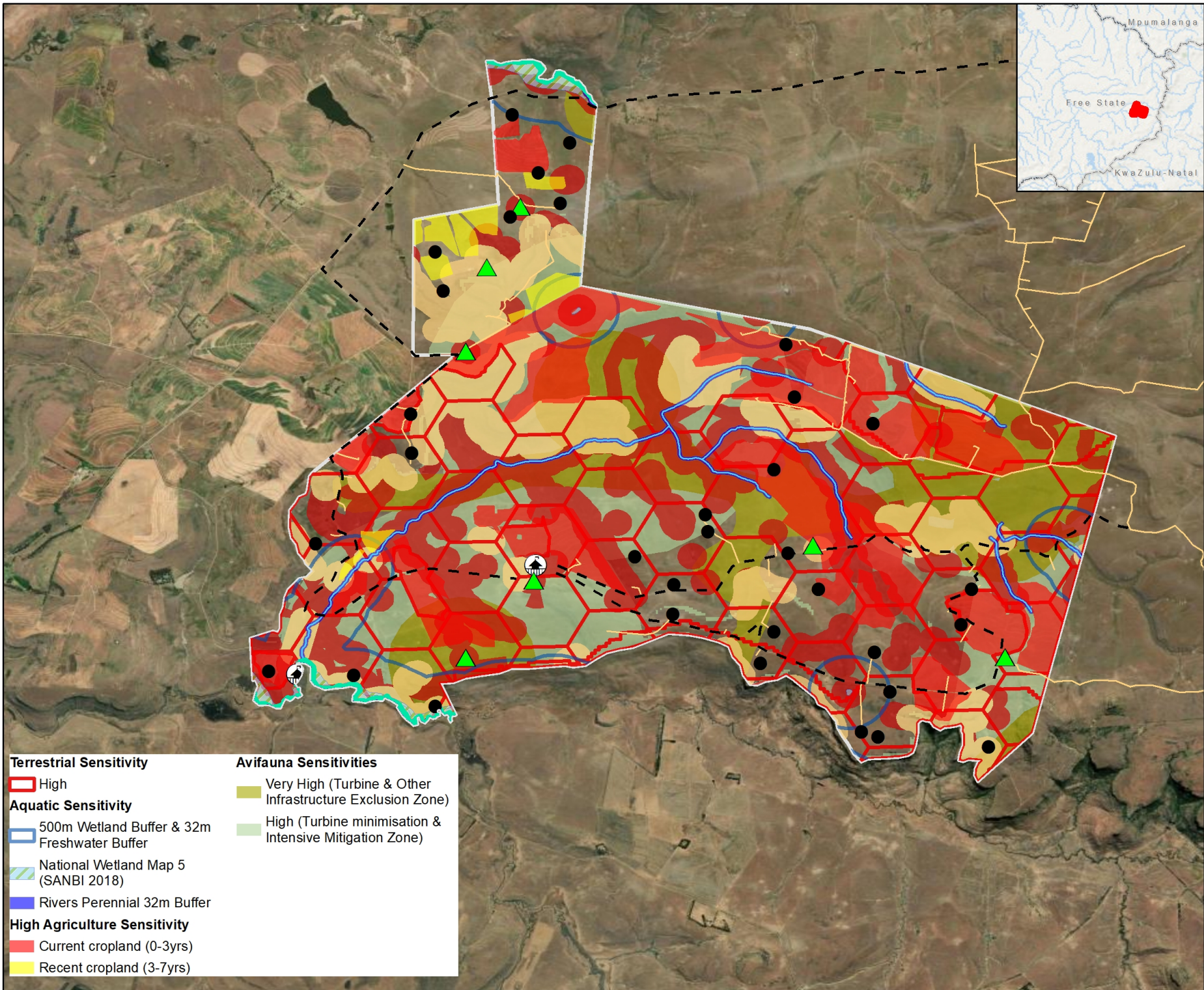
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- Terrestrial Sensitivity**
- High
- Aquatic Sensitivity**
- 500m Wetland Buffer & 32m Freshwater Buffer
 - National Wetland Map 5 (SANBI 2018)
 - Rivers Perennial 32m Buffer
- High Agriculture**
- Current cropland (0-3yrs)
 - Recent cropland (3-7yrs)
- Avifauna Sensitivities**
- Very High (Turbine & Other Infrastructure Exclusion Zone)
 - High (Turbine minimisation & Intensive Mitigation Zone)



MULILO

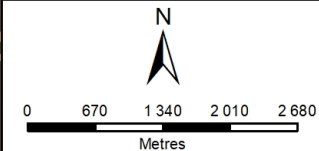
GROOTHOEK WEF SENSITIVITY

Legend

- Turbine Locations
- ▭ Groothoek WEF
- 🏠 Heritage
- ▲ Groothoek Receptors
- - Existing Roads
- Proposed Roads
- Freshwater
- AB - Largely natural with few modifications

Bat Sensitivity

- High
- Medium-High



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Terrestrial Sensitivity

High

Aquatic Sensitivity

500m Wetland Buffer & 32m Freshwater Buffer

National Wetland Map 5 (SANBI 2018)

Rivers Perennial 32m Buffer

High Agriculture Sensitivity

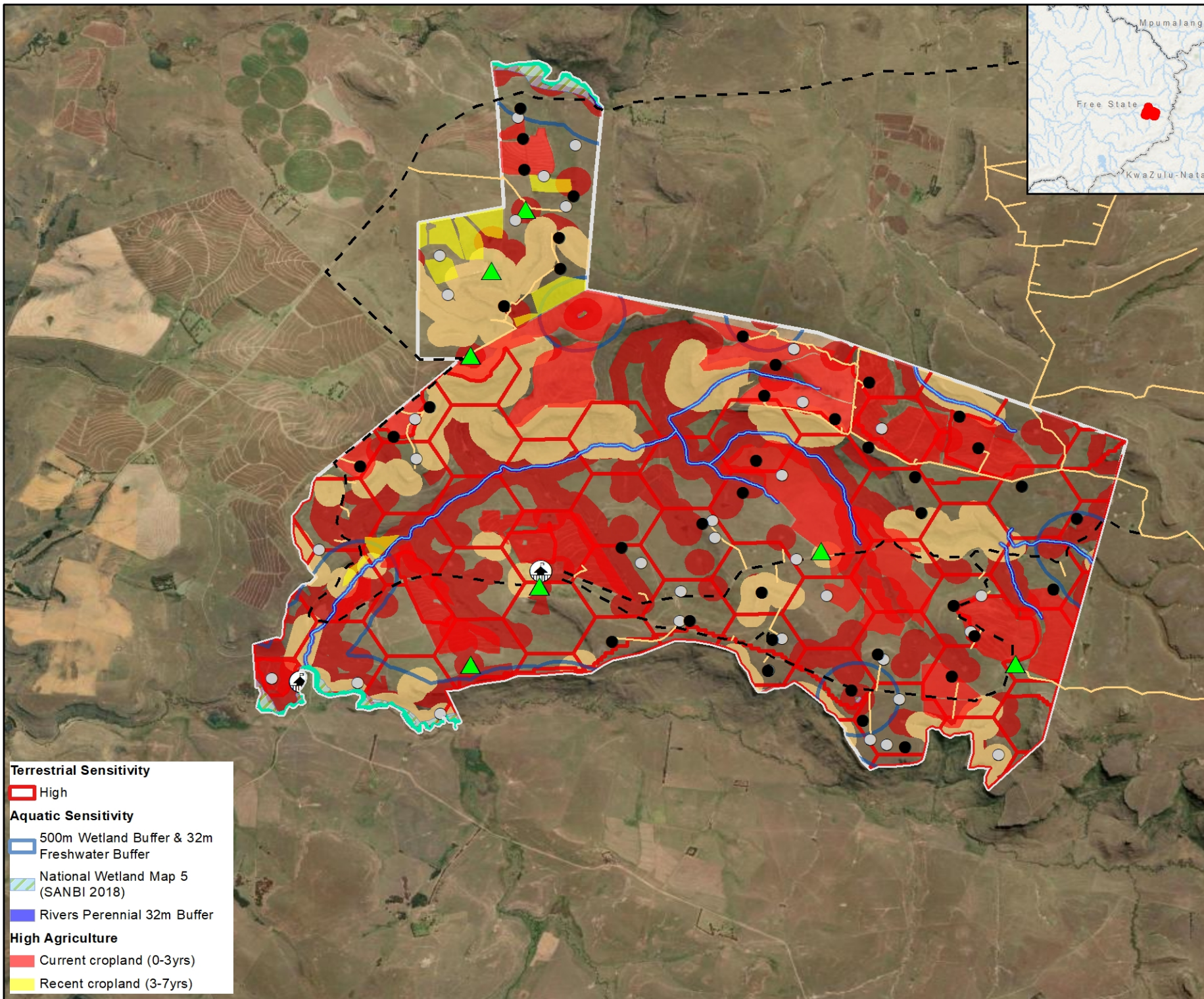
Current cropland (0-3yrs)

Recent cropland (3-7yrs)

Avifauna Sensitivities

Very High (Turbine & Other Infrastructure Exclusion Zone)

High (Turbine minimisation & Intensive Mitigation Zone)



MULILO

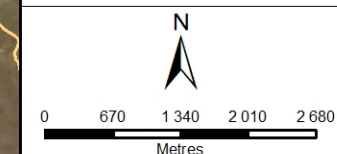
GROOTHOEK WEF SENSITIVITY

Legend

- Optimised Turbine Locations
- Turbine Locations
- Groothoek WEF
- Heritage
- Groothoek Receptors
- Existing Roads
- Proposed Roads
- Freshwater
- AB - Largely natural with few modifications

Bat Sensitivity

- High
- Medium-High



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Terrestrial Sensitivity

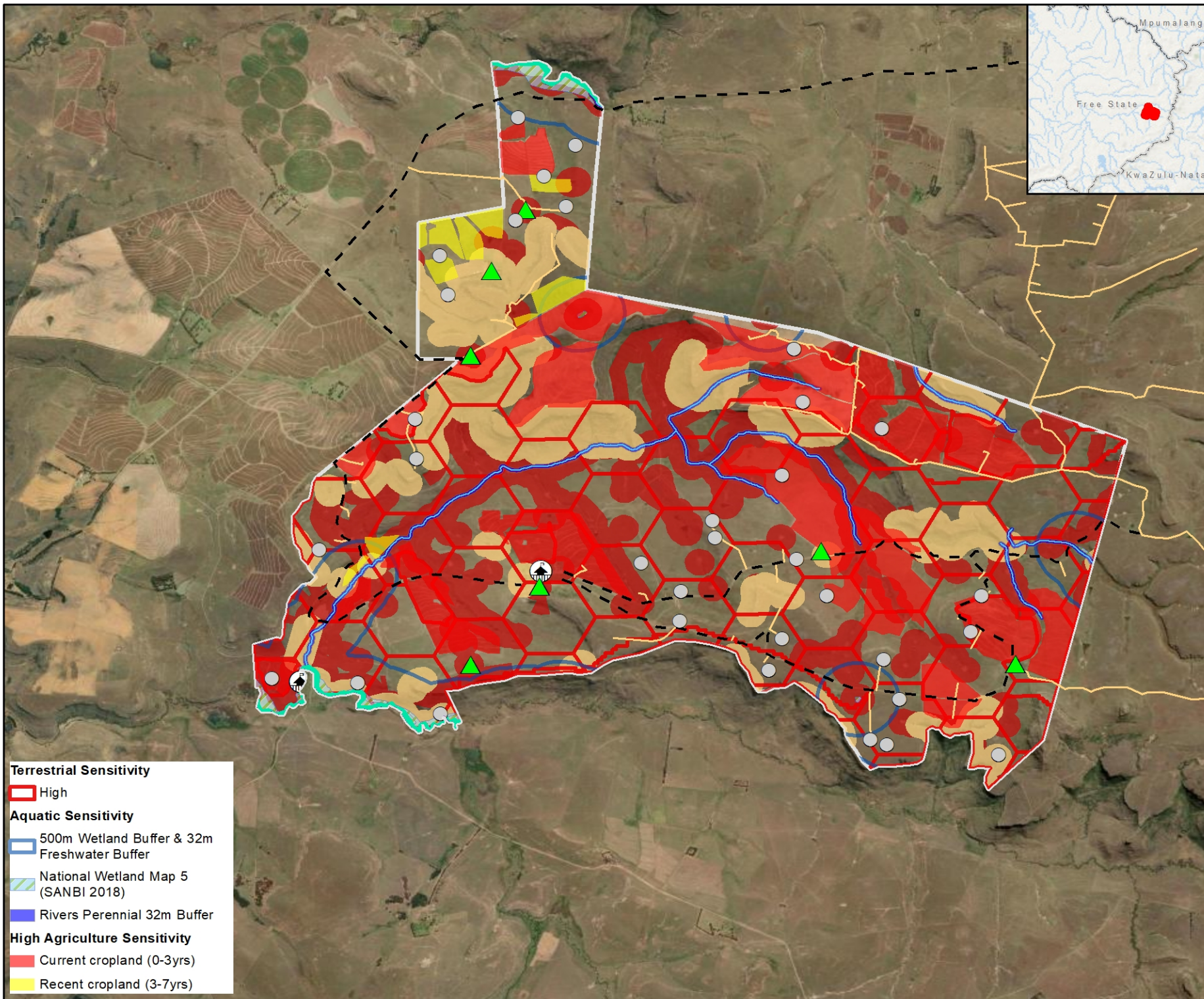
- High

Aquatic Sensitivity

- 500m Wetland Buffer & 32m Freshwater Buffer
- National Wetland Map 5 (SANBI 2018)
- Rivers Perennial 32m Buffer

High Agriculture

- Current cropland (0-3yrs)
- Recent cropland (3-7yrs)



MULILO

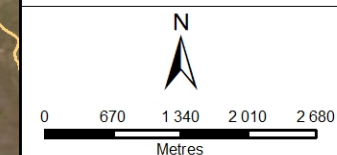
GROOTHOEK WEF SENSITIVITY

Legend

- Turbine Locations
- ▭ Groothoek WEF
- 🌳 Heritage
- ▲ Groothoek Receptors
- - Existing Roads
- Proposed Roads
- Freshwater
- AB - Largely natural with few modifications

Bat Sensitivity

- High
- Medium-High



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PROJECTION: GCS WGS 1984

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SCALE: 1:75 000

DRAWN BY: KM

DATE: 2025/03/05

REVIEWED BY: MG

FIGURE NO:

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Terrestrial Sensitivity

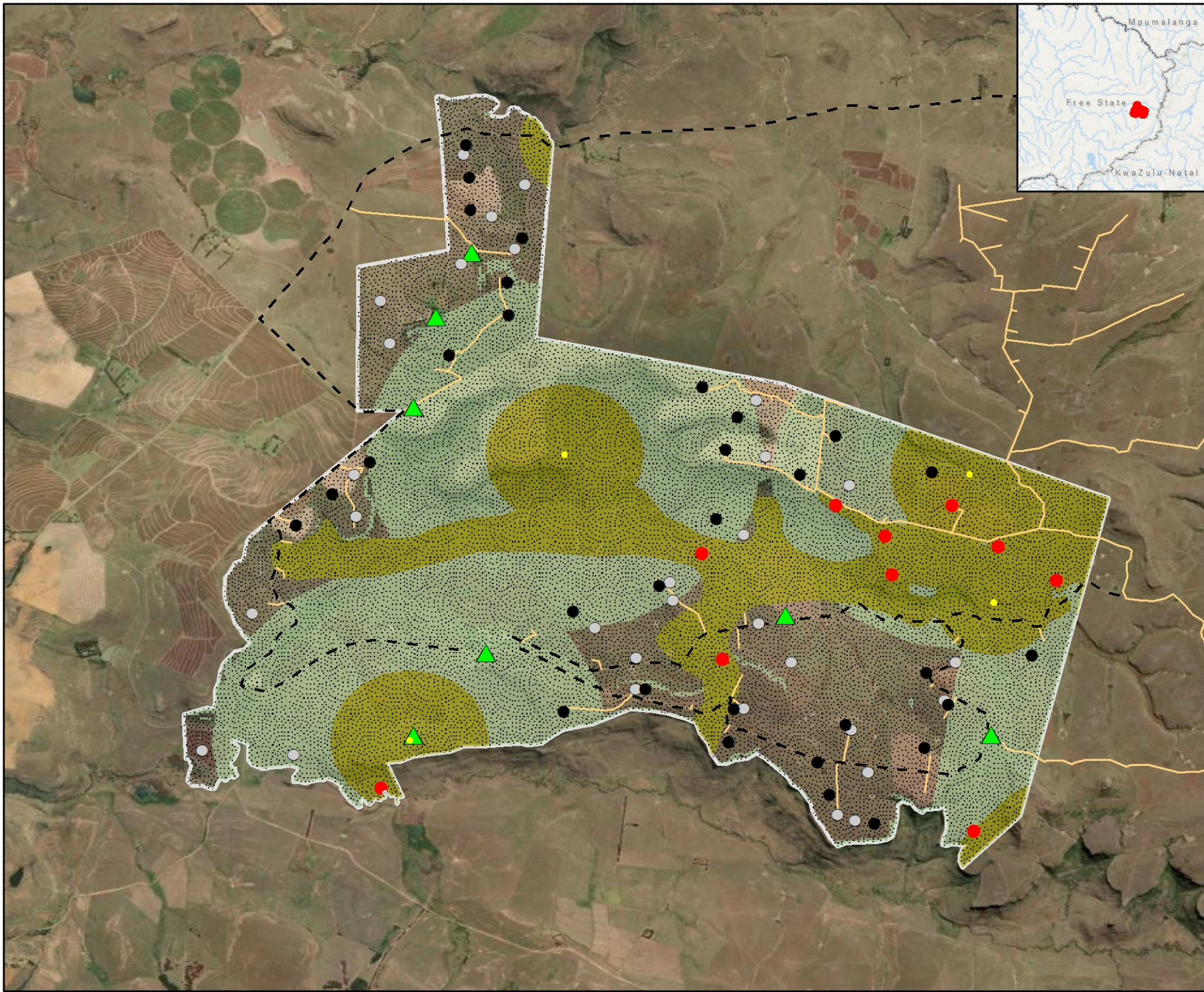
- High

Aquatic Sensitivity

- 500m Wetland Buffer & 32m Freshwater Buffer
- National Wetland Map 5 (SANBI 2018)
- Rivers Perennial 32m Buffer

High Agriculture Sensitivity

- Current cropland (0-3yrs)
- Recent cropland (3-7yrs)



MULILO
GROOTHOEK WEF
AVIFAUNA SENSITIVITY

Legend

- No Go Zones
- Optimised Turbine Locations
- Turbine Locations
- Groothoek WEF
- Groothoek Receptors
- Existing Roads
- Proposed Roads

Avifauna Sensitivities

- Very High (Turbine & Other Infrastructure Exclusion Zone)
- High (Turbine minimisation & Intensive Mitigation Zone)
- Avifauna Sensitivity Buffers
- Avifauna (Cape Culture) Sensitivity Buffers

N

0 620 1240 1860 2480

Metres

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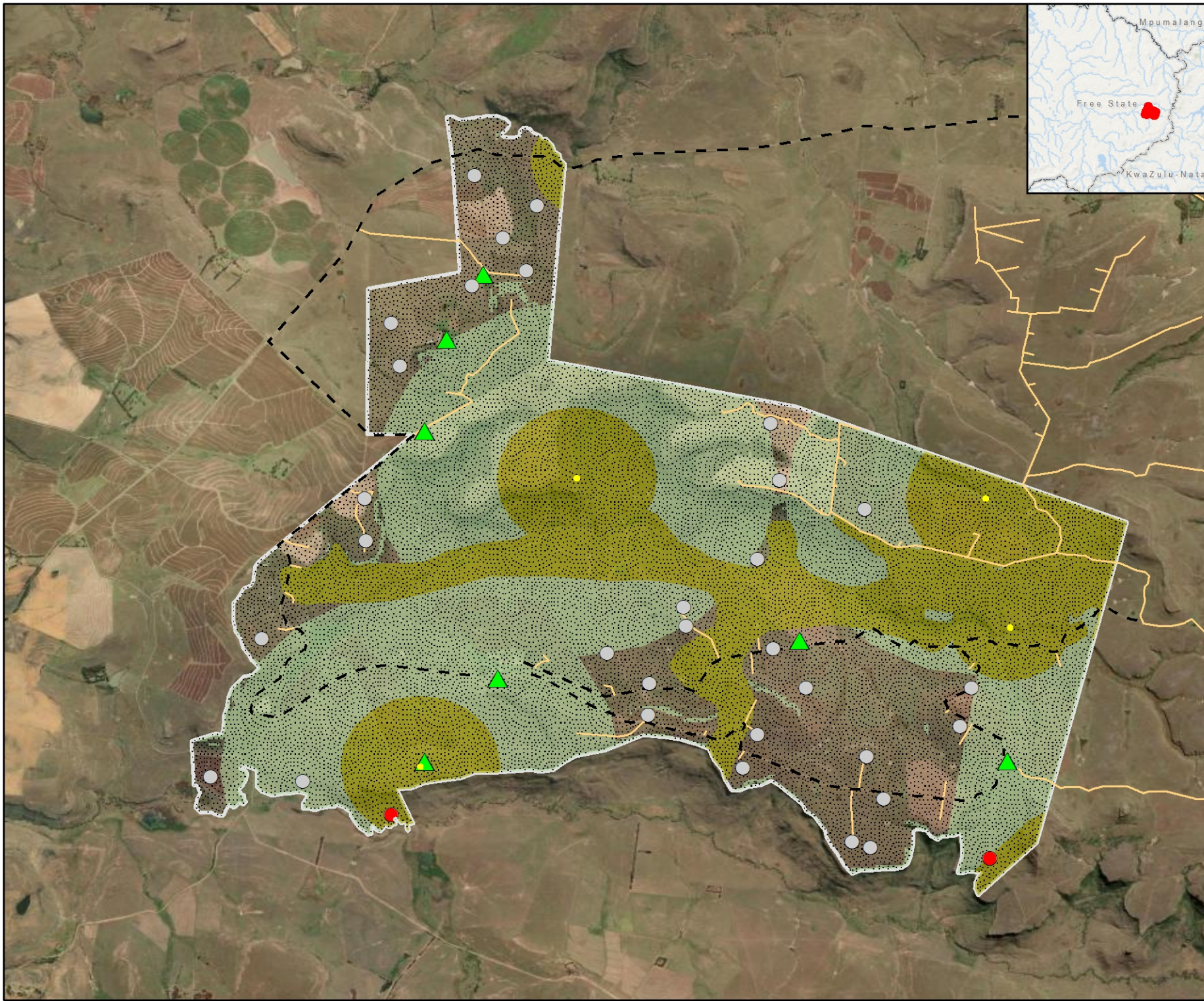
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MULILO
GROOTHOEK WEF
AVIFAUNA SENSITIVITY

Legend

- No Go Zones
- Turbine Locations
- Groothoek WEF
- Groothoek Receptors
- - Existing Roads
- Proposed Roads

Avifauna Sensitivities

- Very High (Turbine & Other Infrastructure Exclusion Zone)
- High (Turbine minimisation & Intensive Mitigation Zone)
- Avifauna Sensitivity Buffers
- Avifauna (Cape Culture) Sensitivity Buffers

N

0 620 1240 1860 2480

Metres

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PROJECTION: GCS WGS 1984

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FIGURE NO:	PROJECT NO: 41106427	REV:

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