

APPENDIX 4 – BOREHOLE LOCATION-SPECIFIC SENSITIVITY MAPS

Appendix 4 presents detailed sensitivity maps for each proposed borehole within the ER32 and ER94 areas, encompassing terrestrial biodiversity, wetlands, land capability, crop boundaries, and heritage features. Additionally, overall sensitivity assessments (maximum sensitivity and sensitivity intensity) for each borehole are included.

1.1 SENSITIVITY INTENSITY



**Sensitivity Intensity (ER32)
(V2_P001 - V2_P004)**
1610 Tetra4 PR Extension BA

Legend

Exploration Right (ER32)	Delineated Wetlands
Existing Production Right	Sensitivity Intensity
Prospective Drill site (ER32)	0 - 3
100m Buffer (Surveyed Area)	4 - 5
500m Buffer	6
	7
	8 - 11

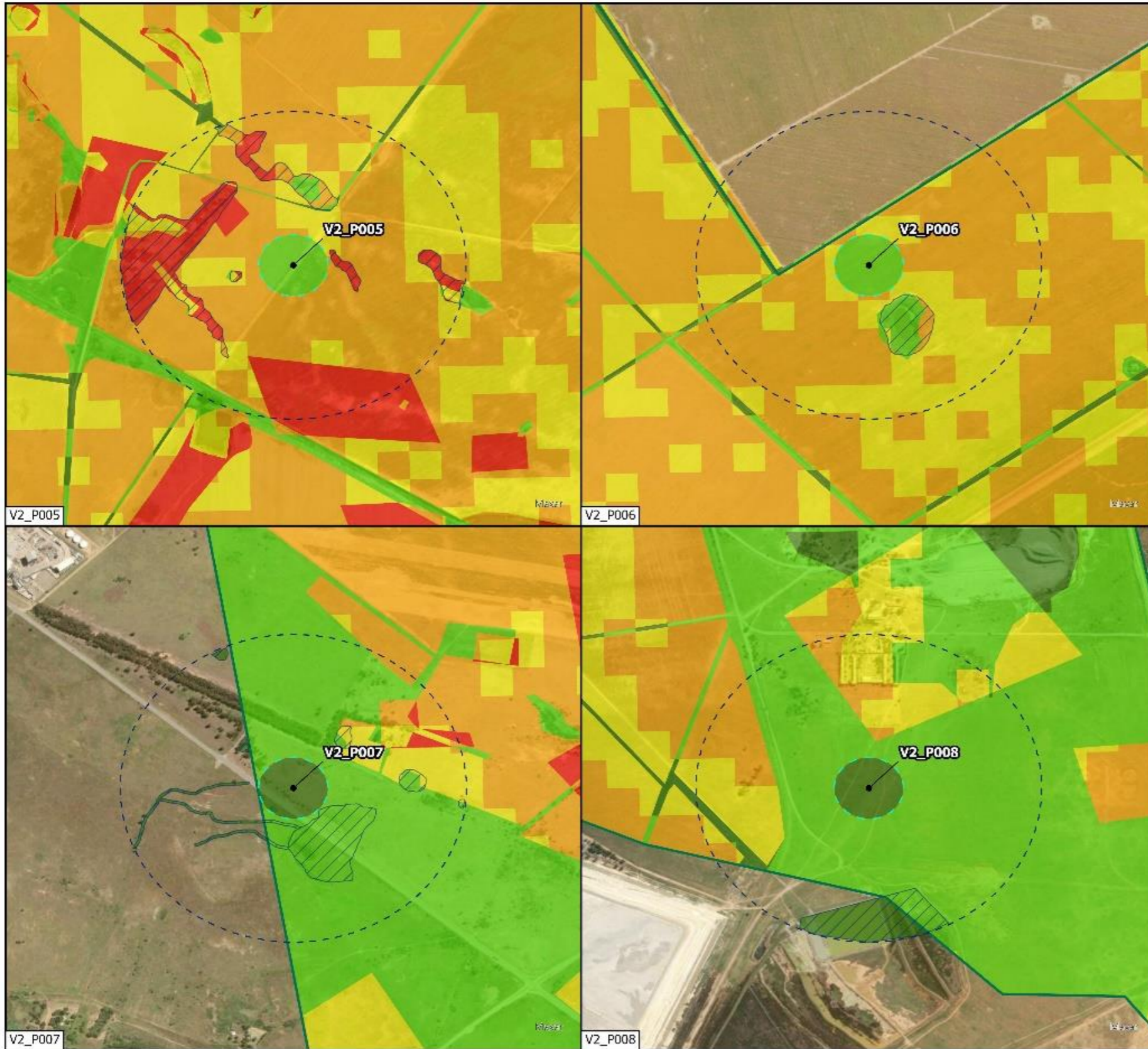
0 100 200 300 400 500 m
Scale: 1:12 000



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_OverallSensitivityIntensity

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW

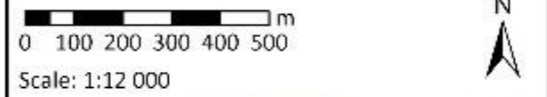




Sensitivity Intensity (ER32) (V2_P005 - V2_P008) 1610 Tetra4 PR Extension BA

Legend

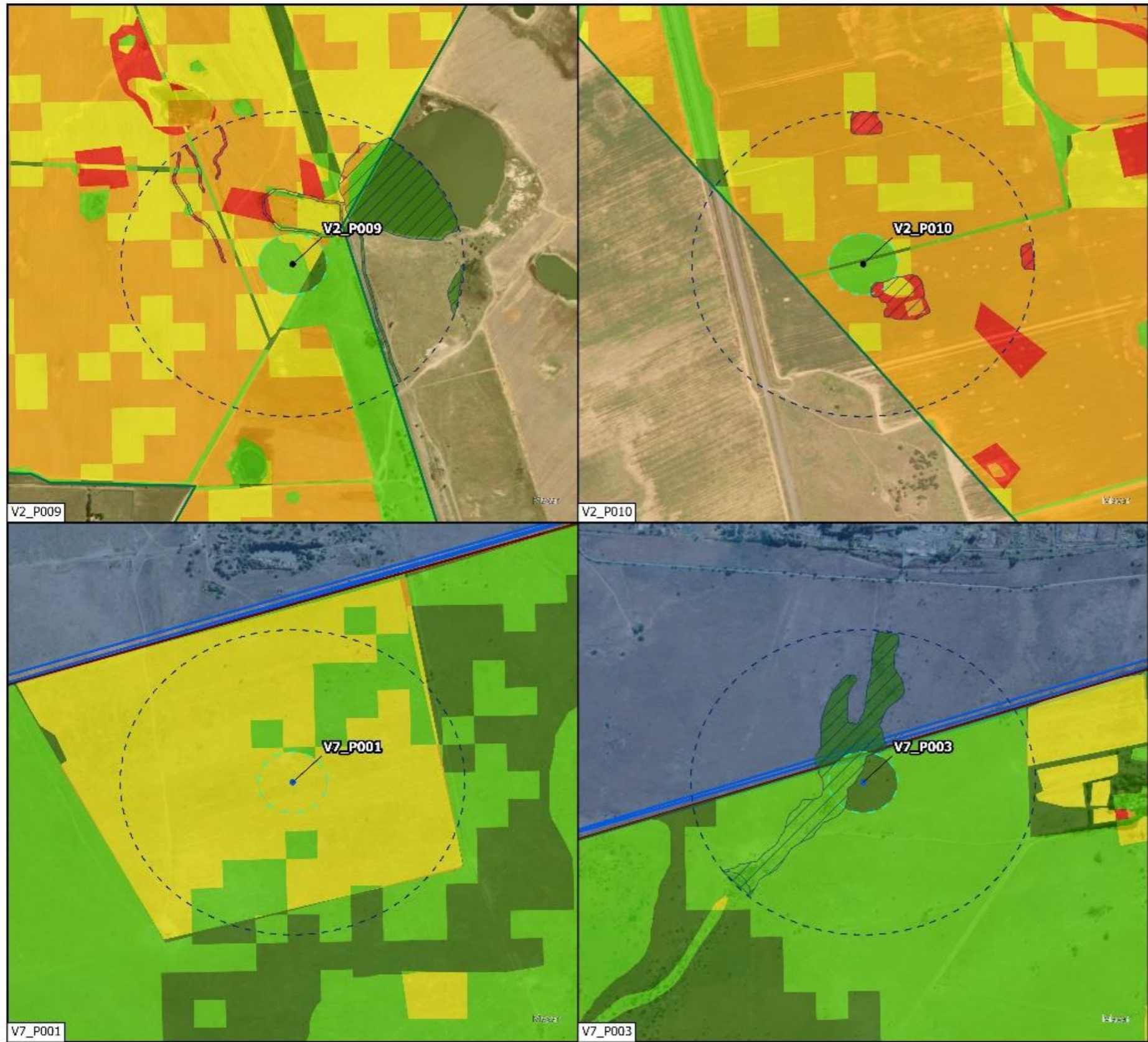
Exploration Right (ER32)	Delineated Wetlands
Existing Production Right	Sensitivity Intensity
Prospective Drill site (ER32)	0 - 3
500m Buffer	4 - 5
100m Buffer (Surveyed Area)	6
	7
	8 - 11



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_OverallSensitivityIntensity

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW





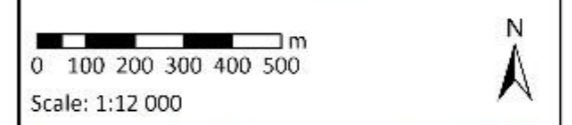
Sensitivity Intensity
ER32 & ER94
 1610 Tetra4 PR Extension BA

Legend

- Exploration Right (ER94)
- Exploration Right (ER32)
- Existing Production Right
- Prospective Drill site (ER32)
- Prospective Drill site (ER94)
- 100m Buffer (Surveyed Area)
- 500m Buffer
- Delineated Wetlands

Sensitivity Intensity

- 0 - 3
- 4 - 5
- 6
- 7
- 8 - 11



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_OverallSensitivityIntensity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW



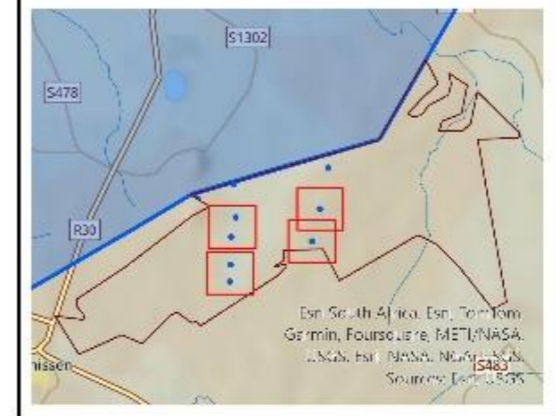


Sensitivity Intensity (ER94)
(V7_P002, V7P004 - V7_P008)
 1610 Tetra4 PR Extension BA

Legend

Exploration Right (ER94)	Delineated Wetlands
Existing Production Right	Sensitivity Intensity
Prospective Drill site (ER94)	0 - 3
500m Buffer	4 - 5
100m Buffer (Surveyed Area)	6
	7
	8 - 11

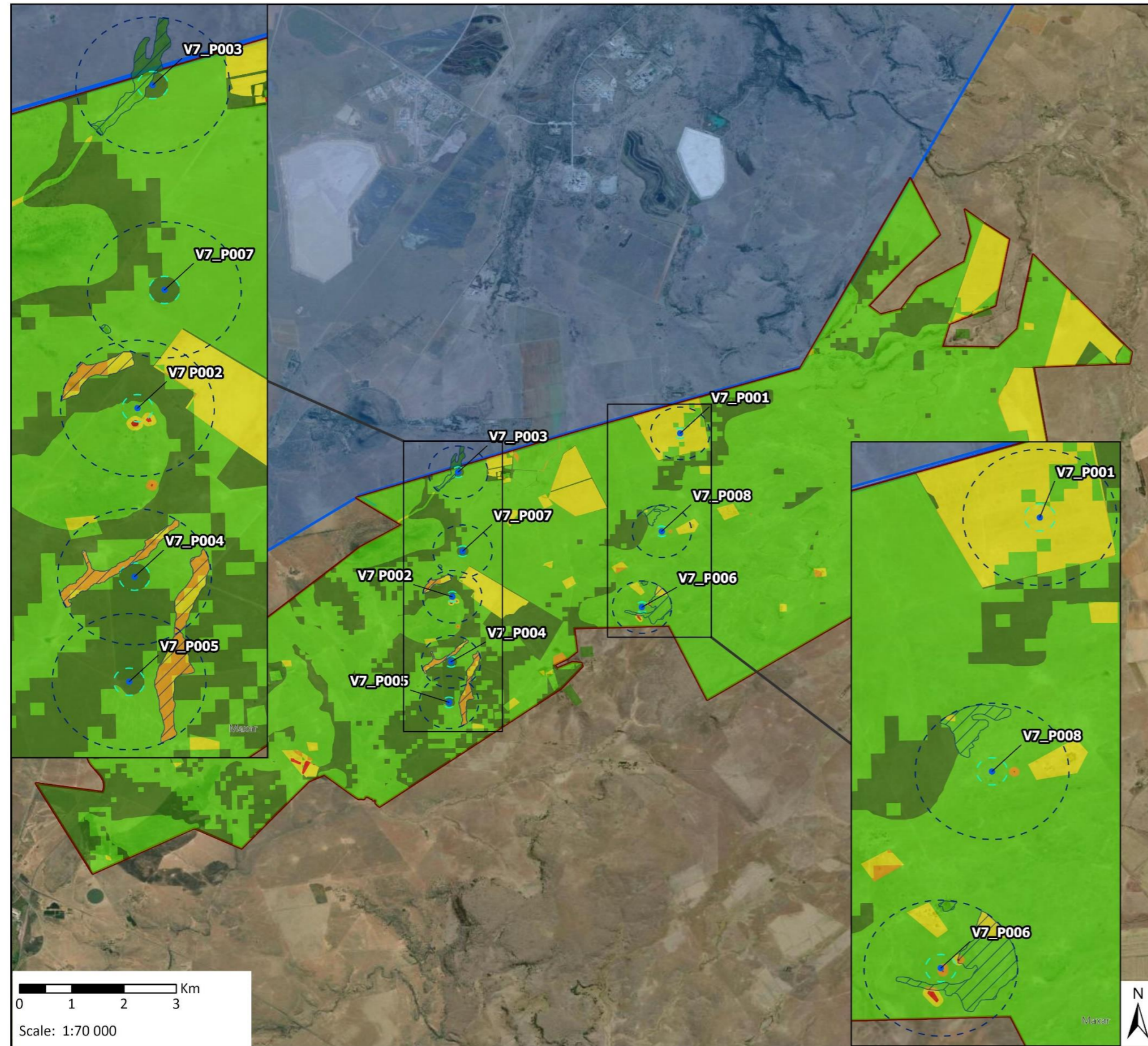
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 Scale: 1:13 500



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_OverallSensitivityIntensity

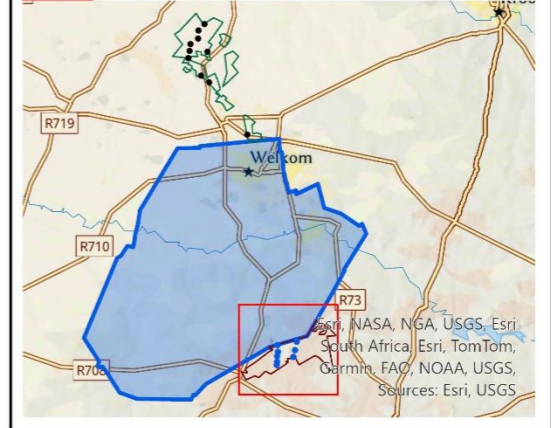
Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Sensitivity Intensity (ER94)
1610 Tetra4 PR Extension BA

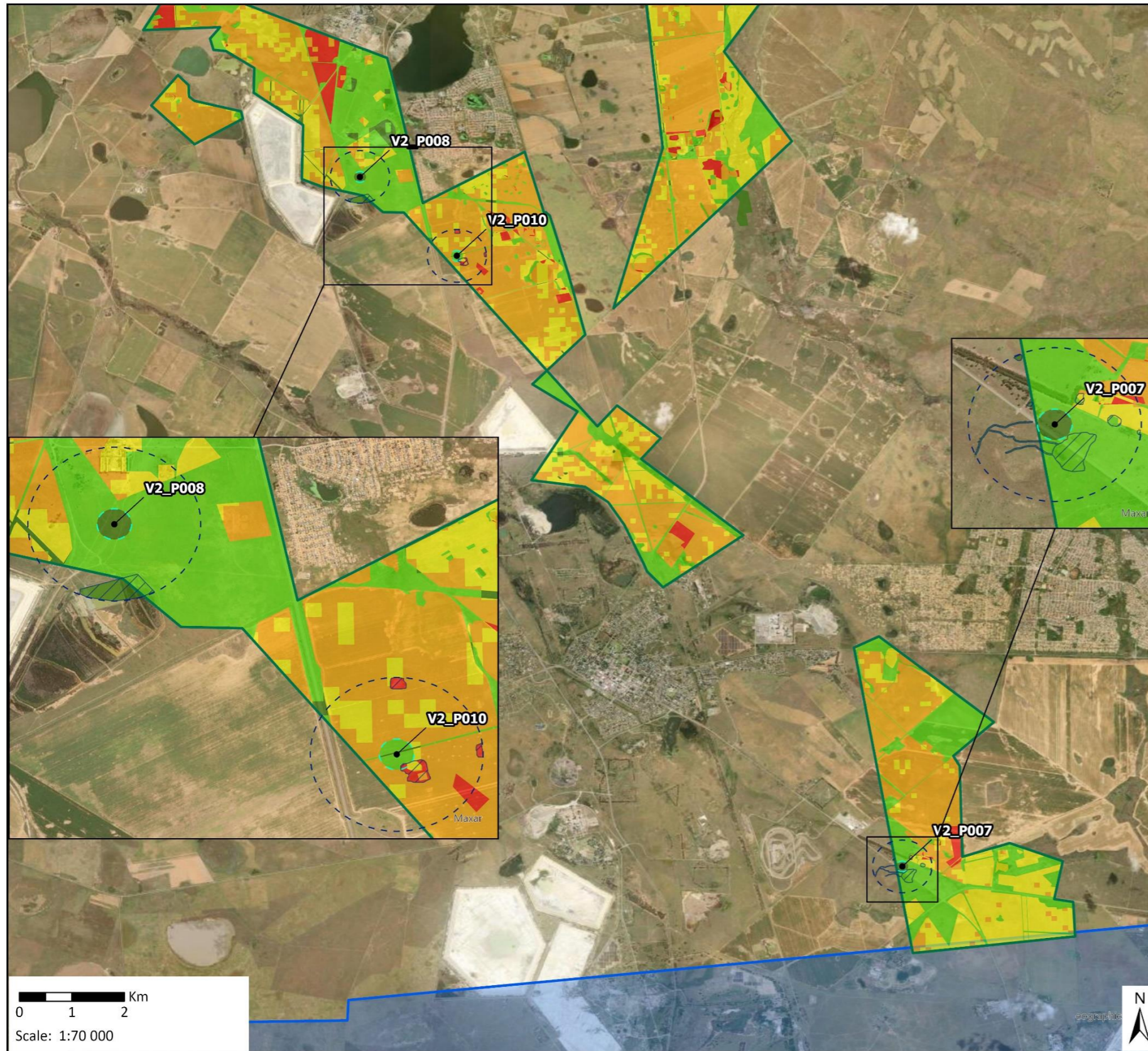
- Legend**
- Prospective Drill site (ER94)
 - Prospective Drill site (ER32)
 - ⊞ Exploration Right (ER94)
 - ⊞ Existing Production Right
 - 500m Buffer
 - 100m Buffer (Surveyed Area)
 - ⊞ Delineated Wetlands



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_OverallSensitivityIntensity

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW





Sensitivity Intensity (ER32)
1610 Tetra4 PR Extension BA

Legend

- Existing Production Right
- Exploration Right (ER32)
- Prospective Drill site (ER32)
- Prospective Drill site (ER94)
- 500m Buffer
- 100m Buffer (Surveyed Area)
- Delineated Wetlands

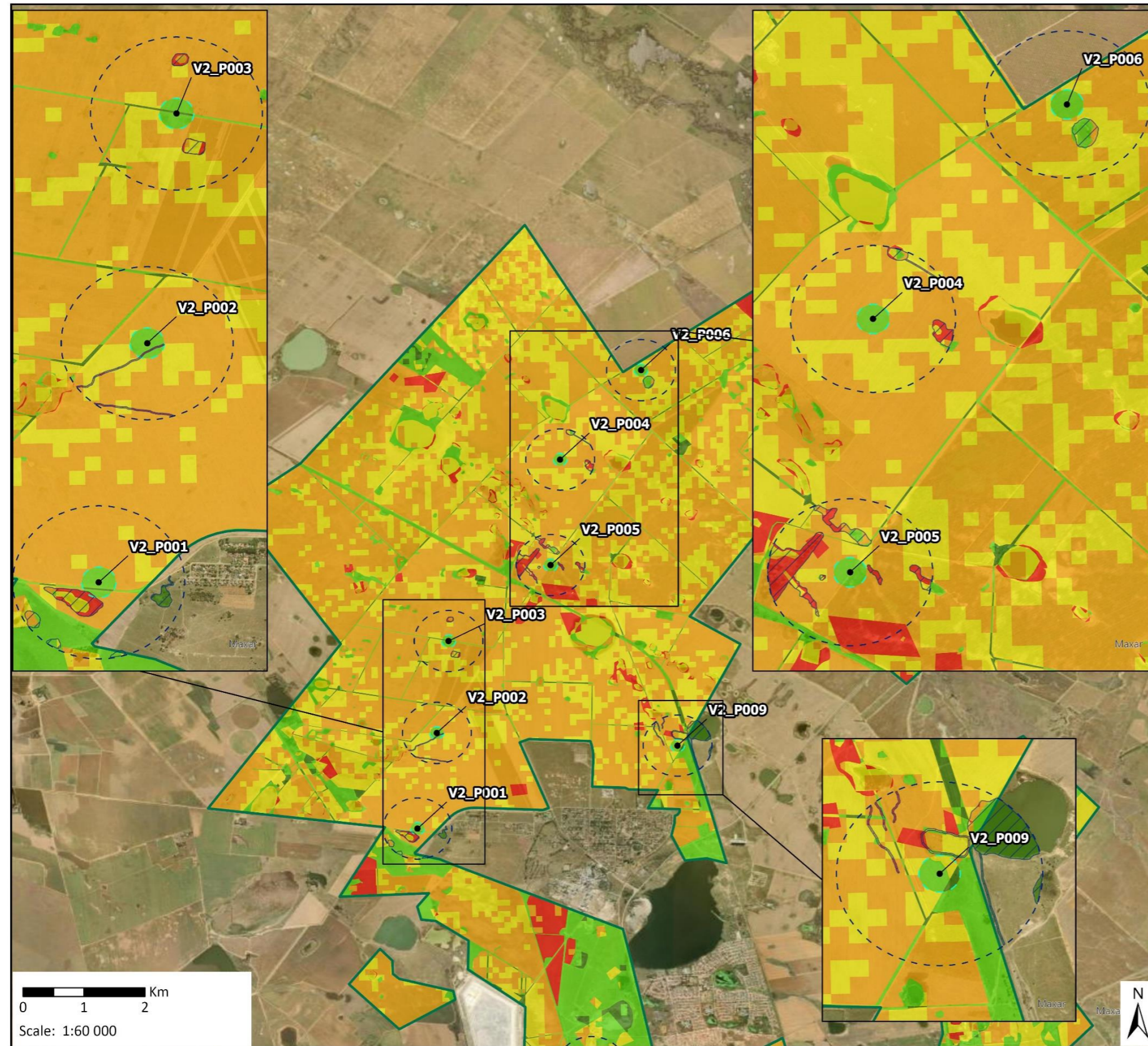
Sensitivity Intensity

- 0 - 3
- 4 - 5
- 6
- 7
- 8 - 11

Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_OverallSensitivityIntensity

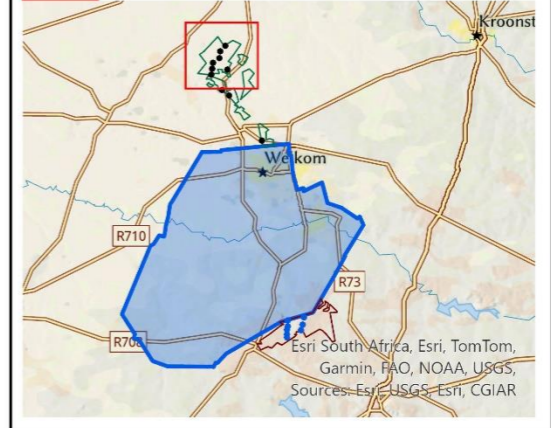
Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Sensitivity Intensity (ER32)
1610 Tetra4 PR Extension BA

- Legend**
- Exploration Right (ER32)
 - Prospective Drill site (ER32)
 - Prospective Drill site (ER94)
 - 500m Buffer
 - 100m Buffer (Surveyed Area)
 - Delineated Wetlands

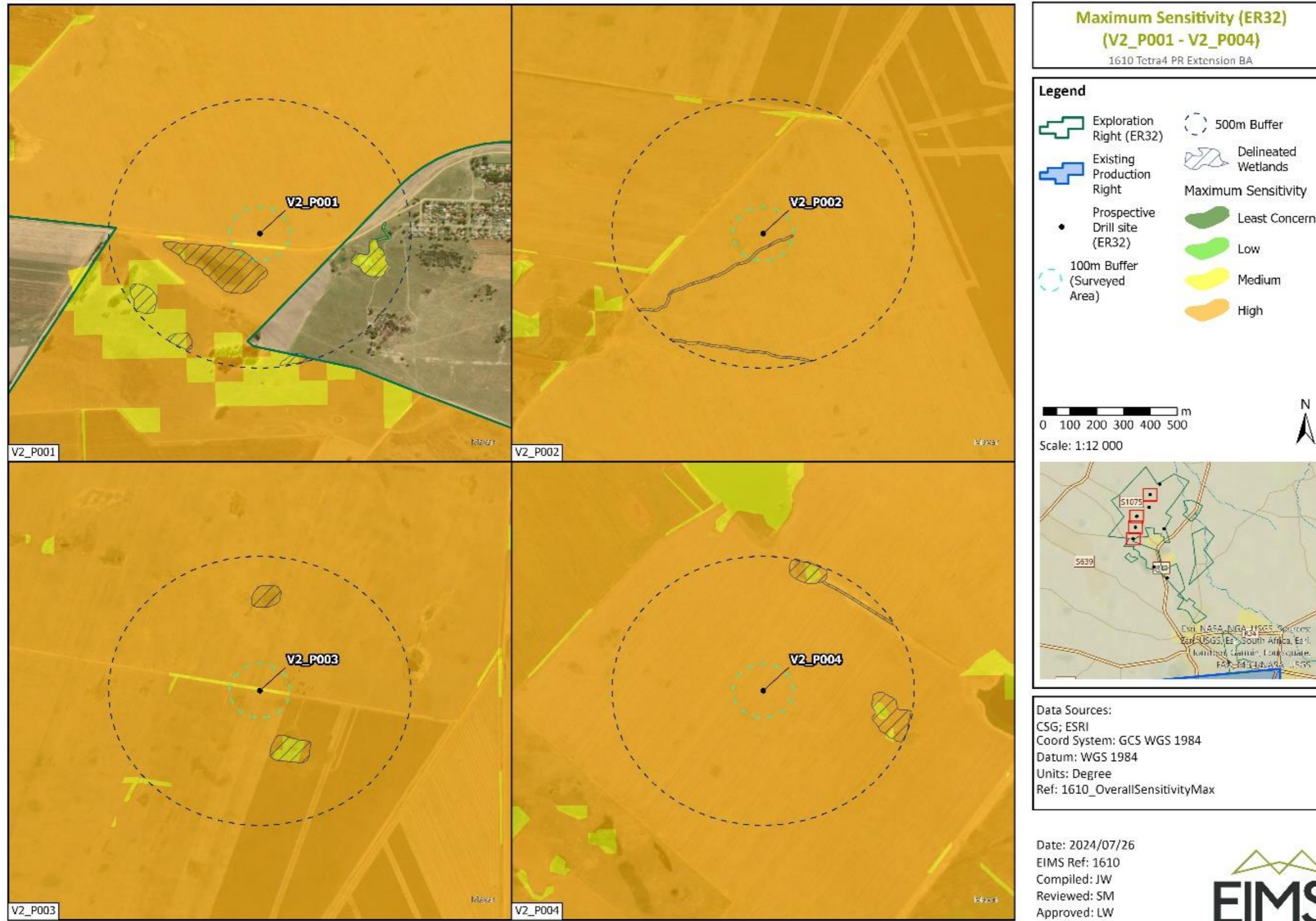


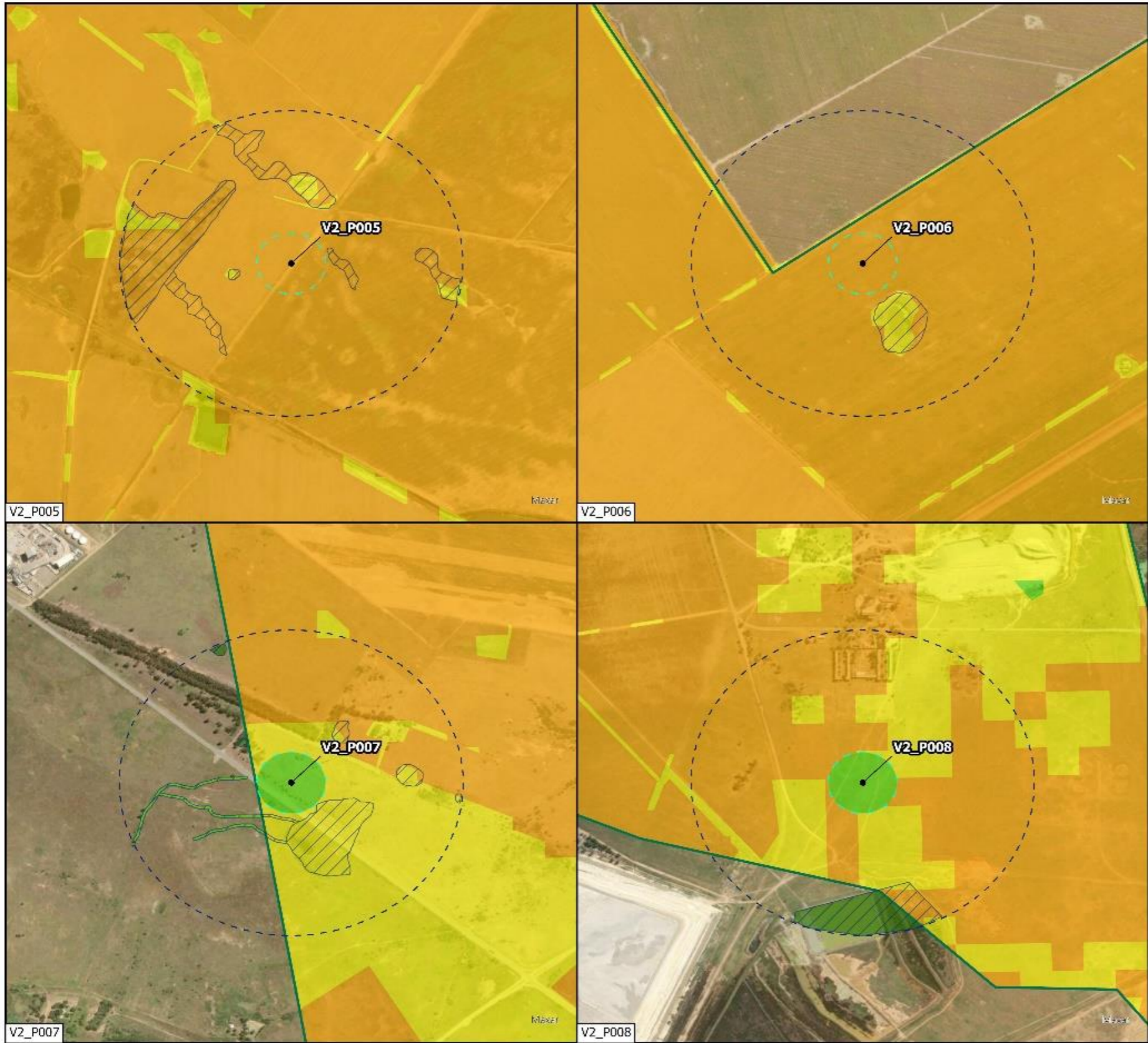
Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_OverallSensitivityIntensity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW



1.2 MAXIMUM SENSITIVITY

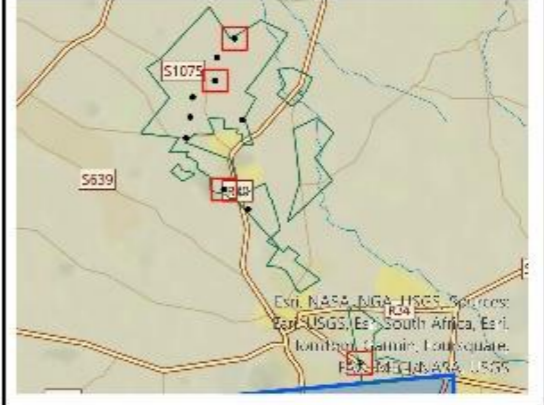
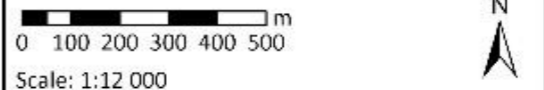




**Maximum Sensitivity (ER32)
(V2_P005 - V2_P008)**
1610 Tetra4 PR Extension BA

Legend

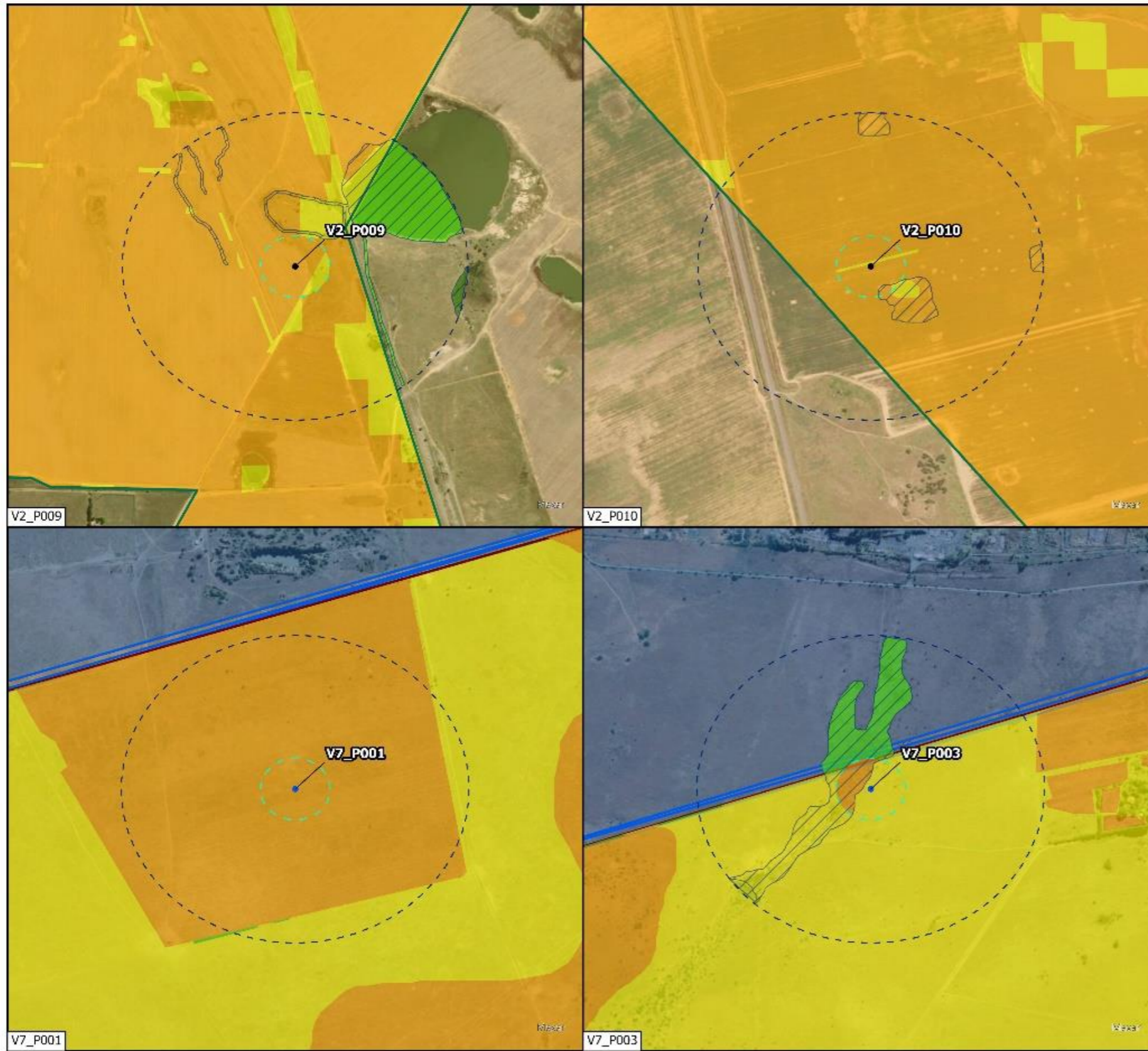
- Exploration Right (ER32)
- Existing Production Right
- Prospective Drill site (ER32)
- 500m Buffer
- 100m Buffer (Surveyed Area)
- Delineated Wetlands
- Maximum Sensitivity**
- Least Concern
- Low
- Medium
- High



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_OverallSensitivityMax

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW

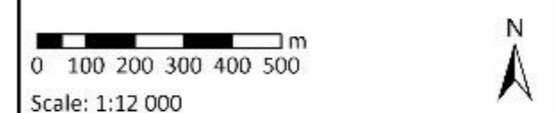




**Maximum Sensitivity
ER32 & ER94**
1610 Tetra4 PR Extension BA

Legend

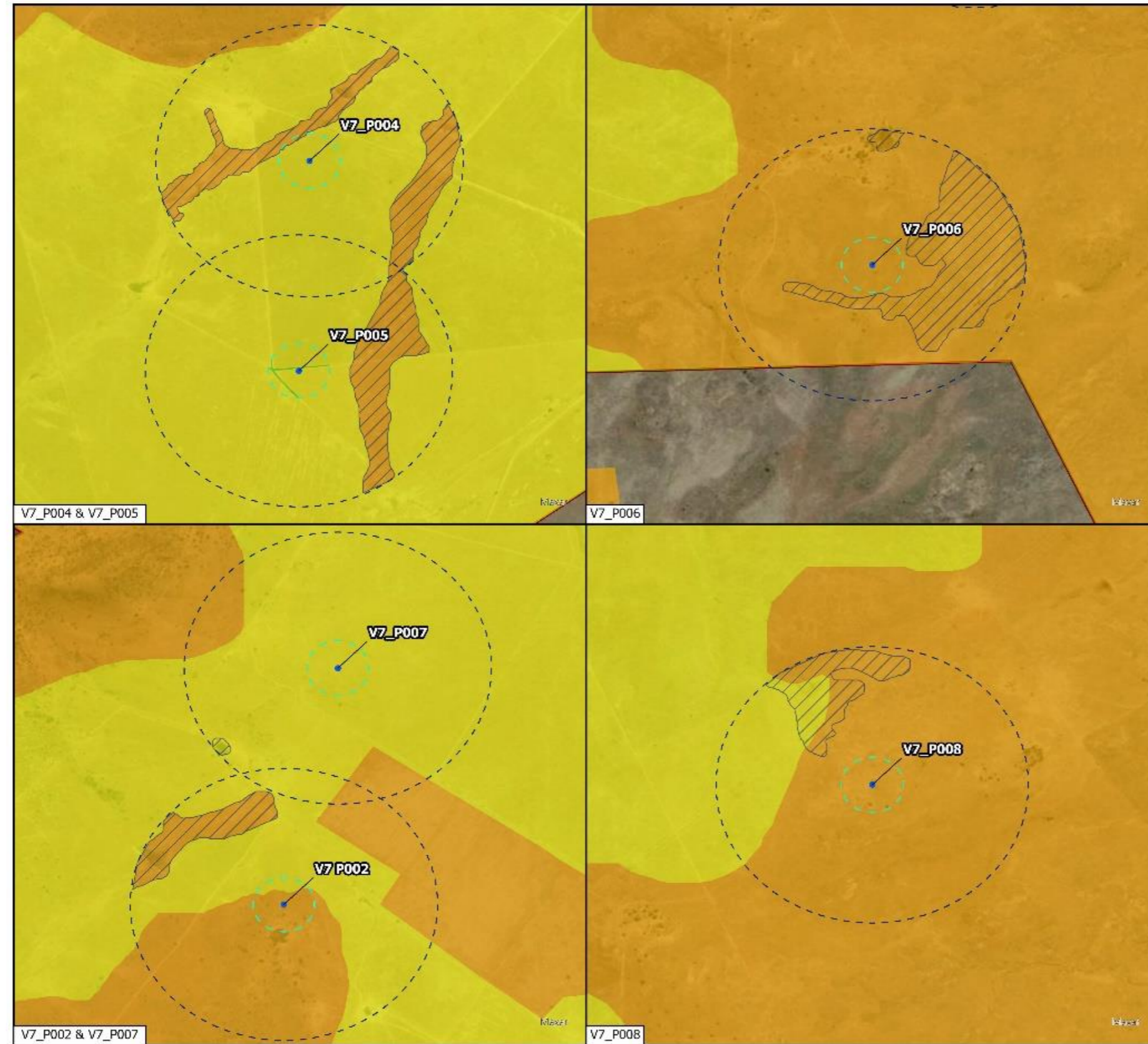
Exploration Right (ER94)	100m Buffer (Surveyed Area)
Exploration Right (ER32)	Delineated Wetlands
Existing Production Right	Maximum Sensitivity
Prospective Drill site (ER32)	Least Concern
Prospective Drill site (ER94)	Low
500m Buffer	Medium
	High



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_OverallSensitivityMax

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW

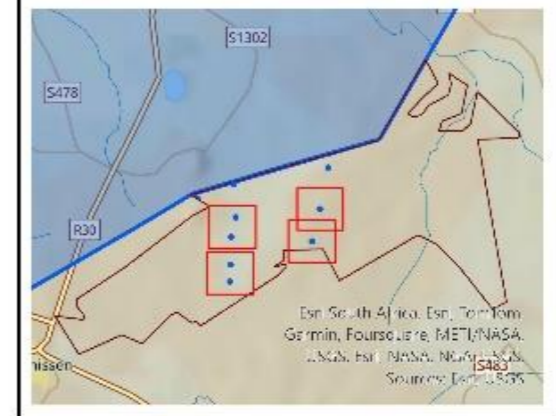
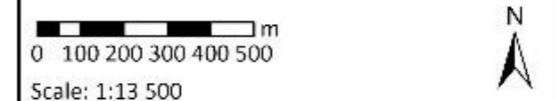




Maximum Sensitivity (ER94)
(V7_P002, V7P004 - V7_P008)
 1610 Tetra4 PR Extension BA

Legend

Exploration Right (ER94)	Delineated Wetlands
Existing Production Right	Maximum Sensitivity
Prospective Drill site (ER94)	Least Concern
500m Buffer	Low
100m Buffer (Surveyed Area)	Medium
	High



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_OverallSensitivityMax

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW



Maximum Sensitivity (ER94)

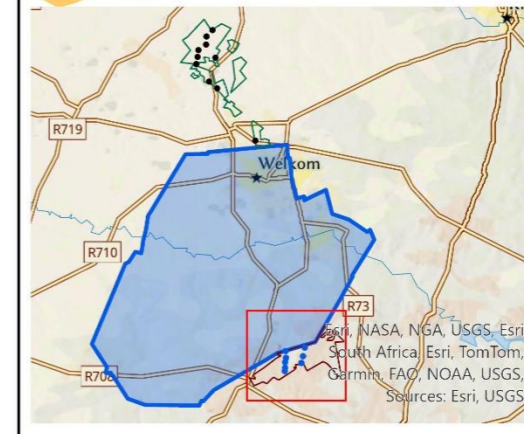
1610 Tetra4 PR Extension BA

Legend

- Prospective Drill site (ER94)
- Prospective Drill site (ER32)
- Exploration Right (ER94)
- Existing Production Right
- 500m Buffer
- 100m Buffer (Surveyed Area)
- Delineated Wetlands

Maximum Sensitivity

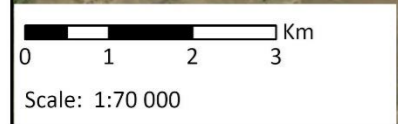
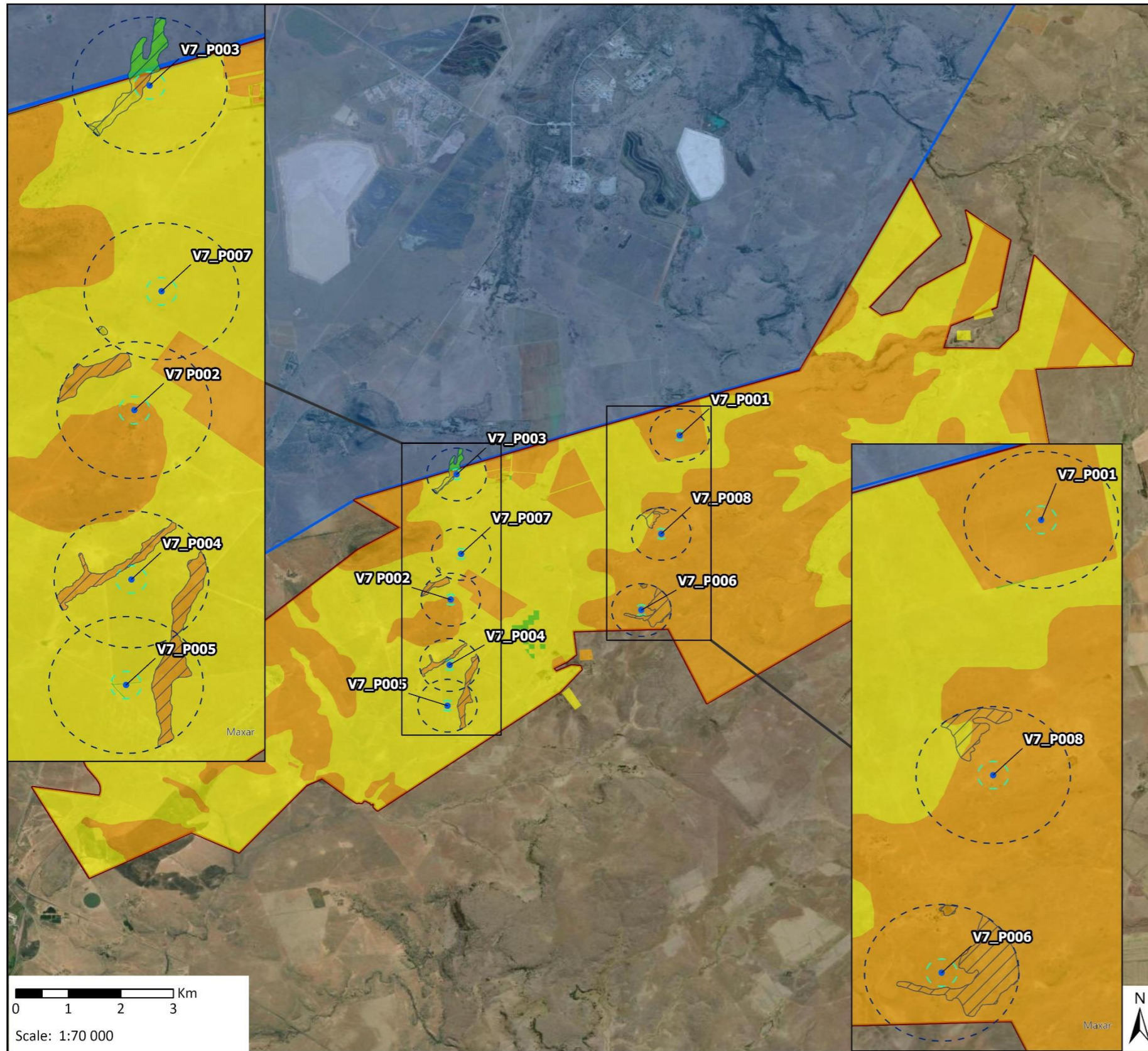
- Least Concern
- Low
- Medium
- High



Data Sources:

CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_OverallSensitivityMax








Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW







Maximum Sensitivity (ER32)

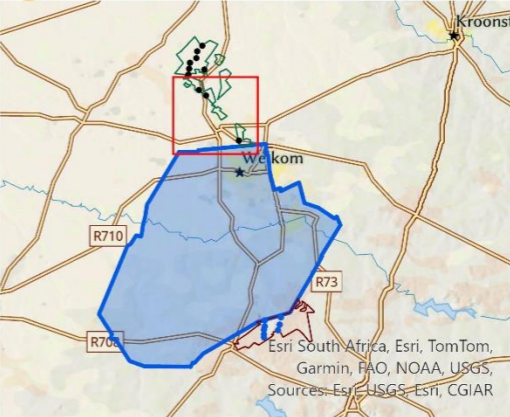
1610 Tetra4 PR Extension BA

Legend

-  Existing Production Right
-  Exploration Right (ER32)
-  Prospective Drill site (ER32)
-  Prospective Drill site (ER94)
-  500m Buffer
-  100m Buffer (Surveyed Area)
-  Delineated Wetlands

Maximum Sensitivity

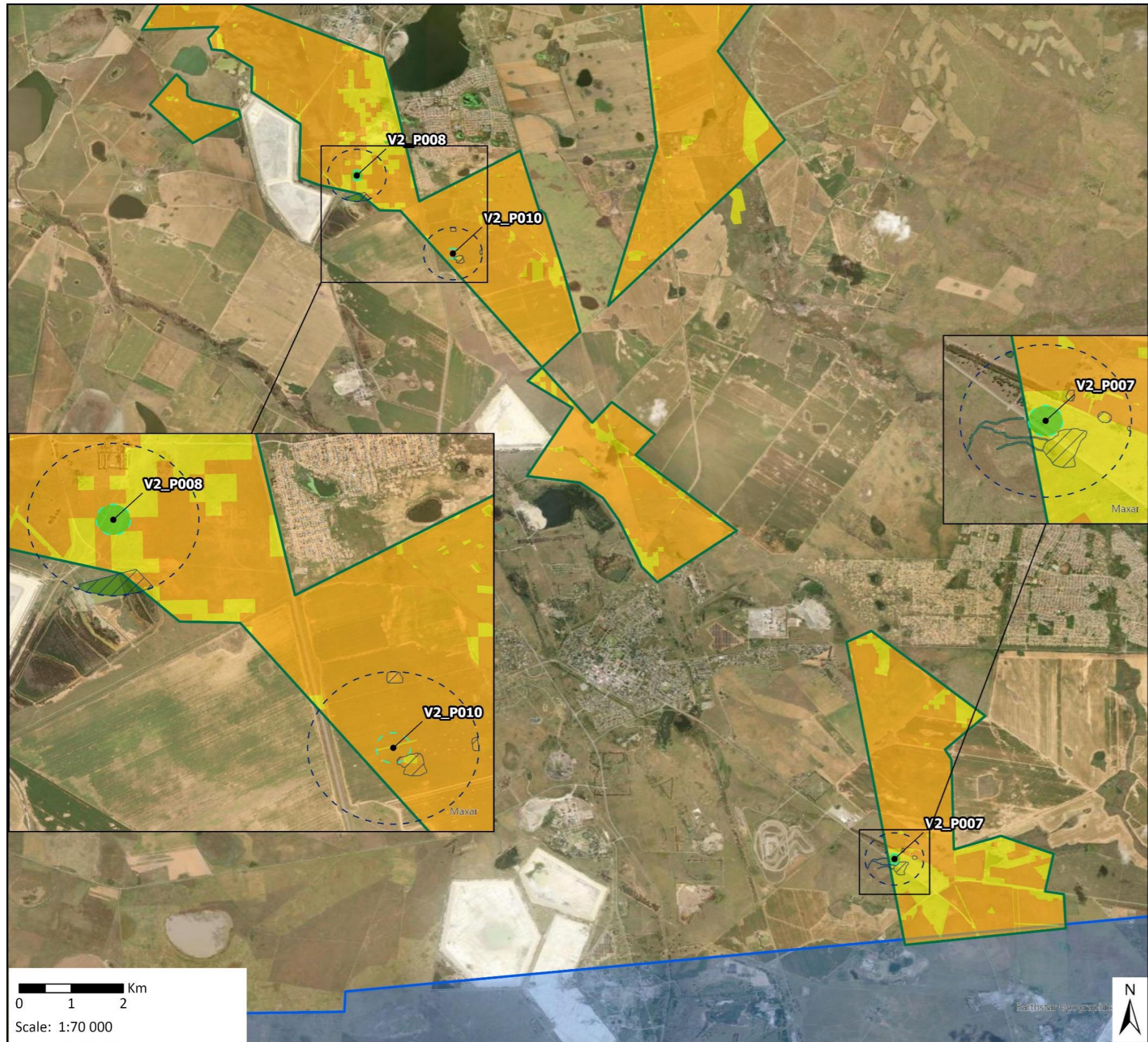
-  Least Concern
-  Low
-  Medium
-  High

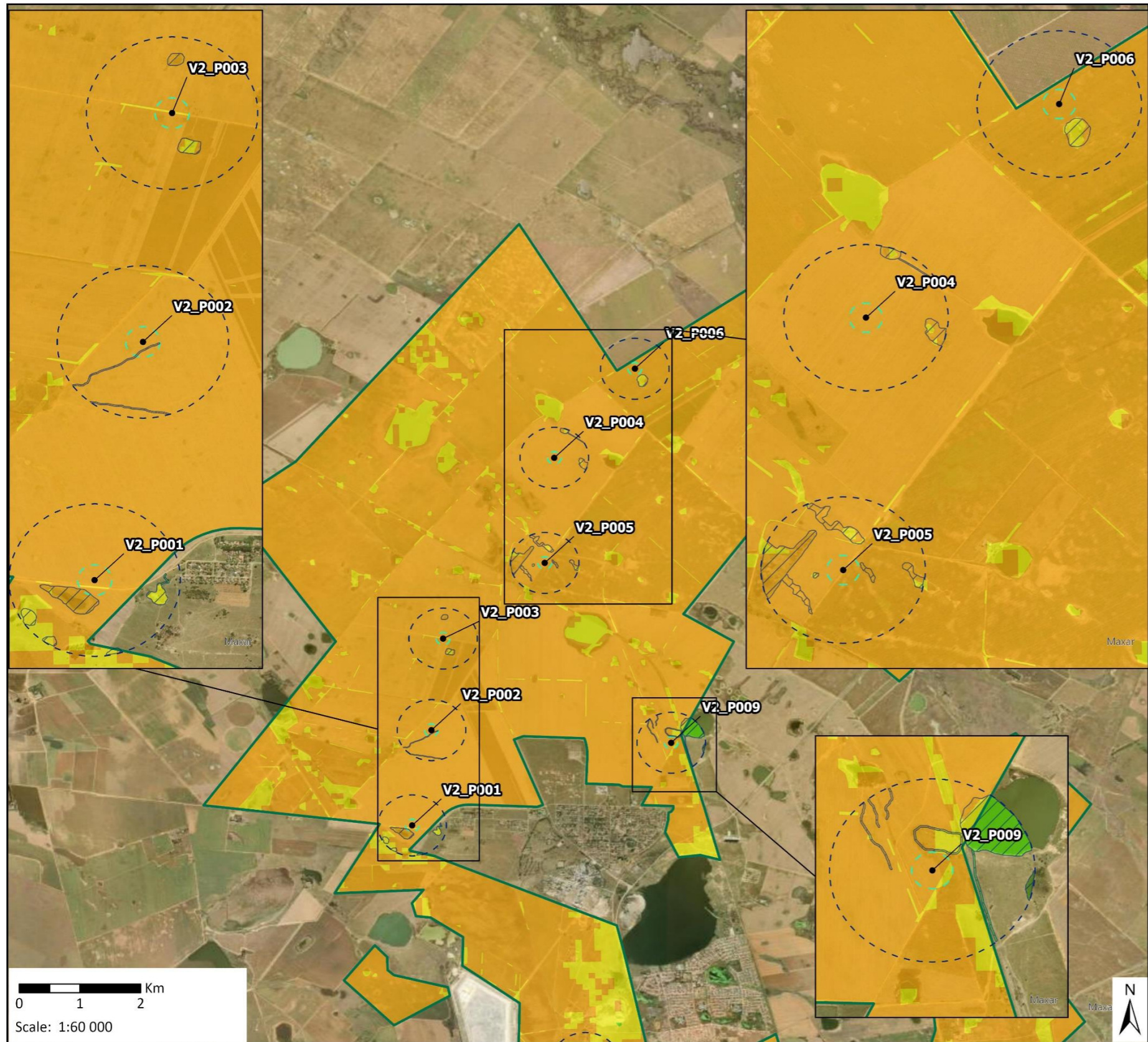


Esri South Africa, Esri, TomTom, Garmin, FAO, NOAA, USGS, Sources: Esri, USGS, Esri, CGIAR

Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_OverallSensitivityMax

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Maximum Sensitivity (ER32)
1610 Tetra4 PR Extension BA

Legend

- Exploration Right (ER32)
- Prospective Drill site (ER32)
- Prospective Drill site (ER94)
- 500m Buffer
- 100m Buffer (Surveyed Area)
- Delineated Wetlands

Maximum Sensitivity

- Least Concern
- Low
- Medium
- High

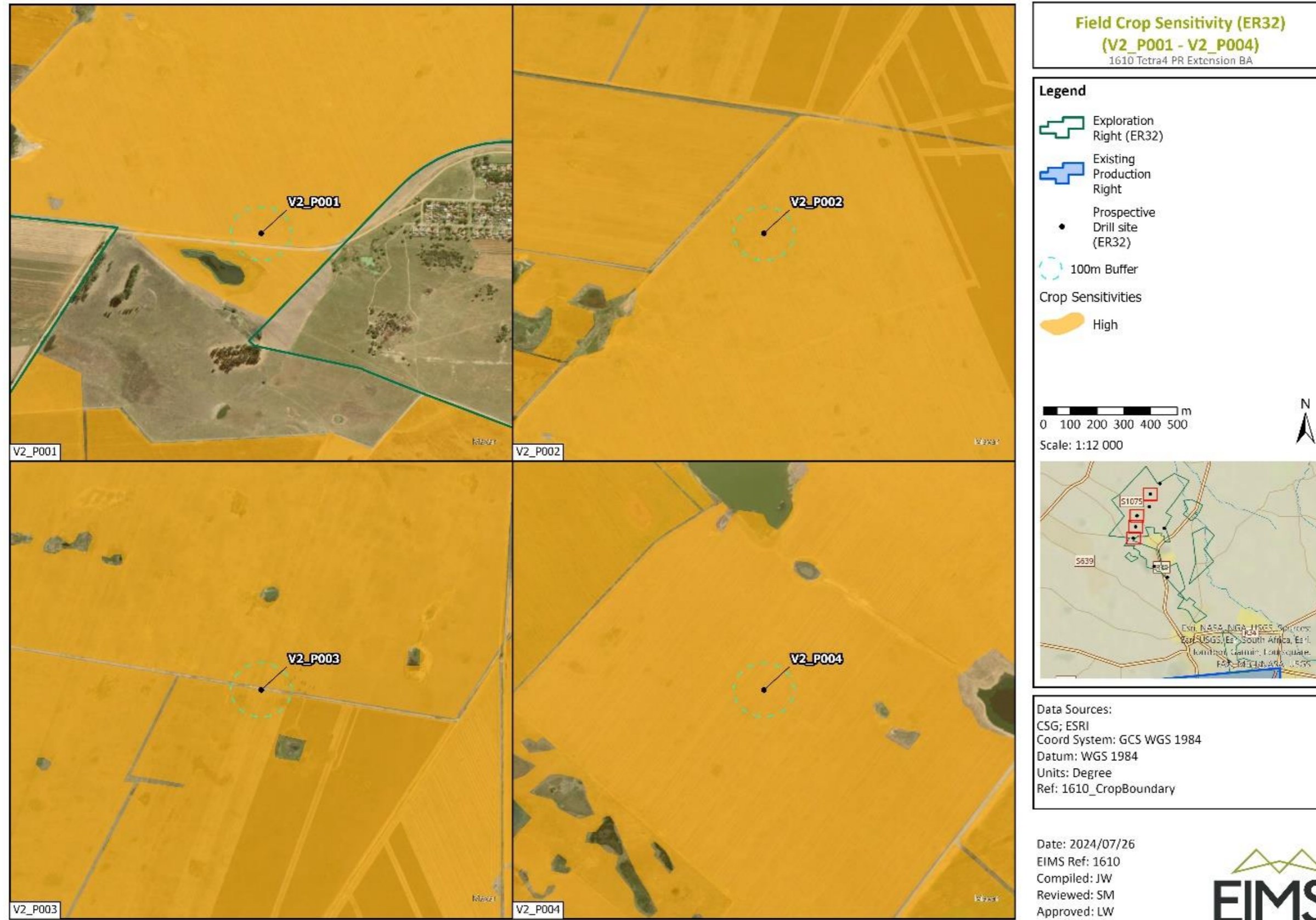
Esri South Africa, Esri, TomTom, Garmin, FAO, NOAA, USGS, Sources: Esri, USGS, Esri, CGIAR

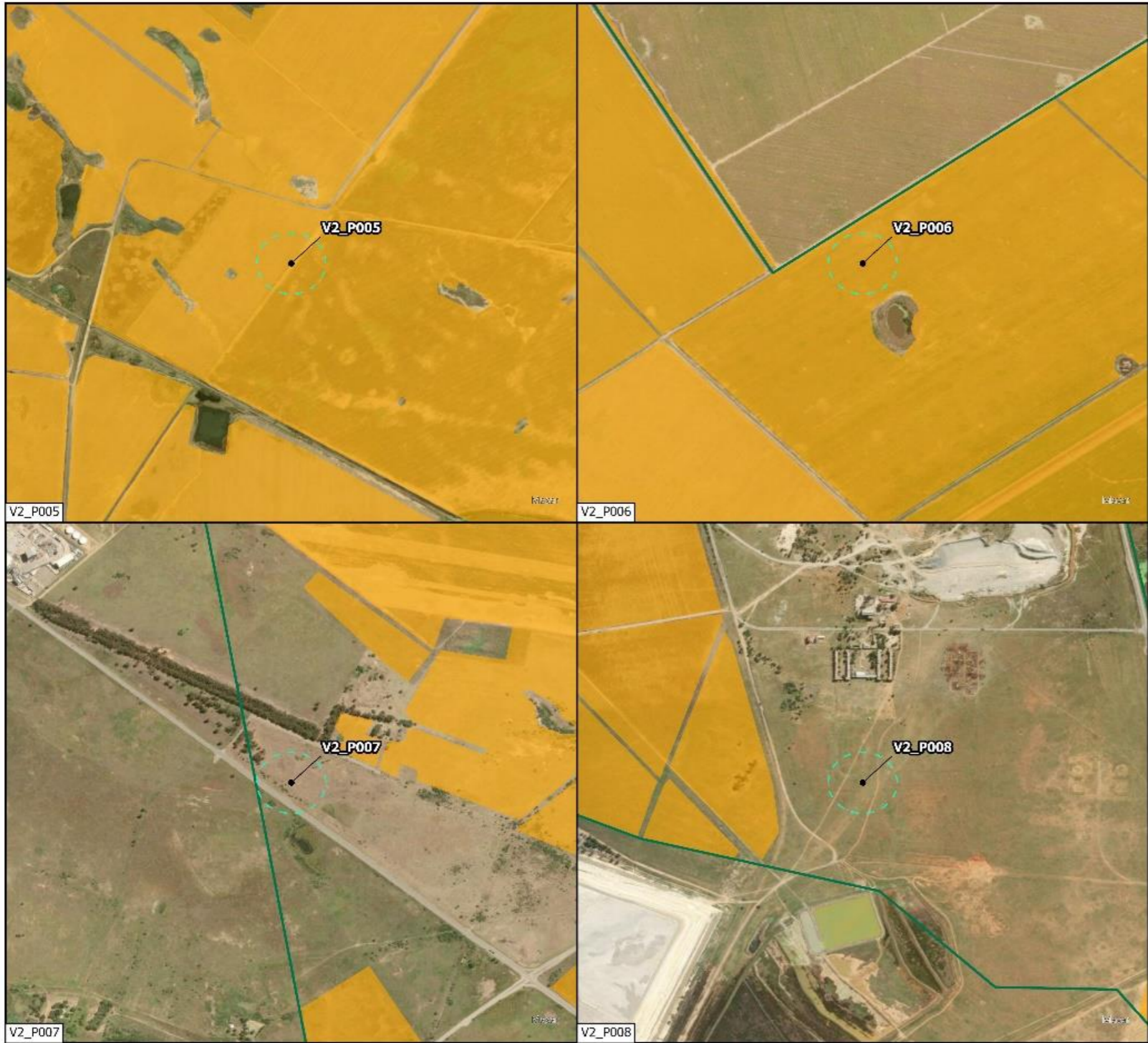
Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_OverallSensitivityMax

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW



1.3 FIELD CROP SENSITIVITY





Field Crop Sensitivity (ER32)
(V2_P005 - V2_P008)
 1610 Tetra4 PR Extension BA

Legend

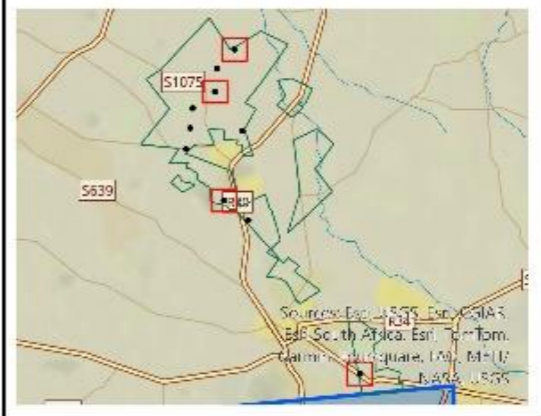
- Exploration Right (ER32)
- Existing Production Right
- Prospective Drill site (ER32)
- 100m Buffer

Crop Sensitivities

- High

0 100 200 300 400 500 m

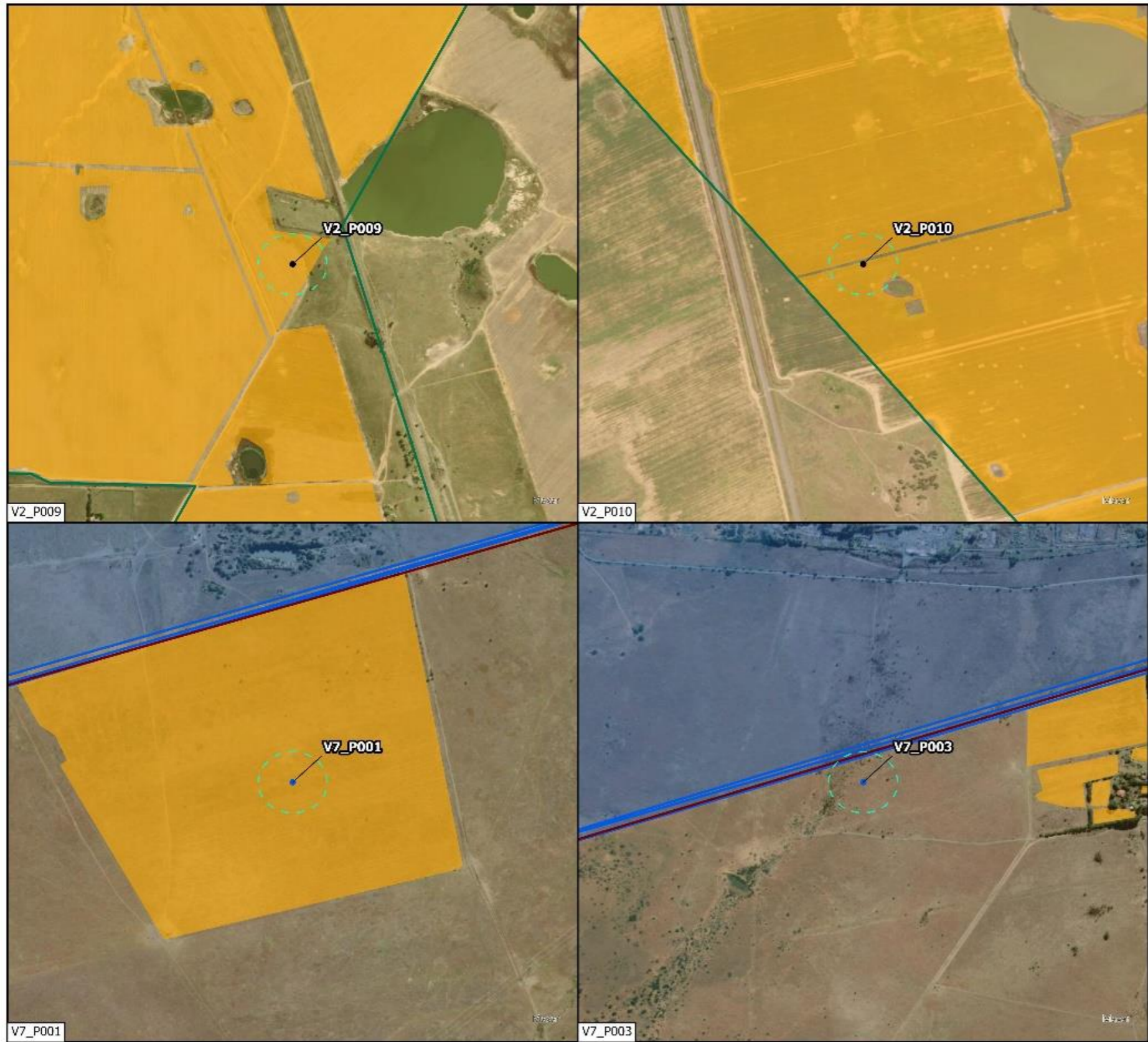
Scale: 1:12 000



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_CropBoundary

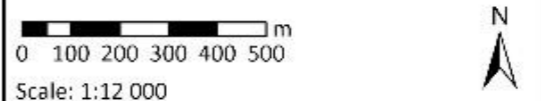
Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





**Field Crop Sensitivity
ER32 & ER94**
1610 Tetra4 PR Extension BA

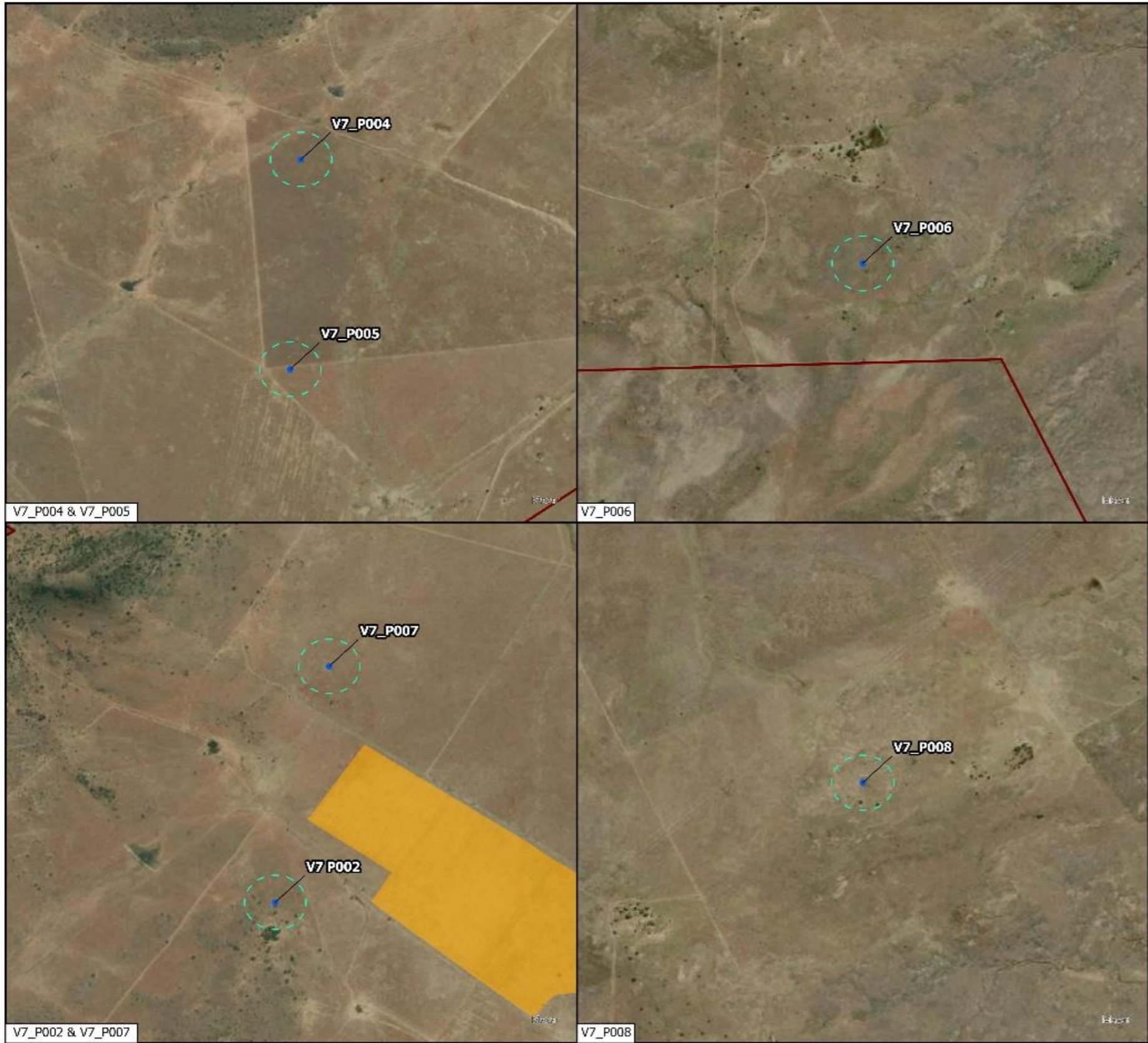
- Legend**
- Exploration Right (ER94)
 - Exploration Right (ER32)
 - Existing Production Right
 - Prospective Drill site (ER32)
 - Prospective Drill site (ER94)
 - 100m Buffer
 - Crop Sensitivities High



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_CropBoundary

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Field Crop Sensitivity (ER94)
(V7_P002, V7P004 - V7_P008)
 1610 Tetra4 PR Extension BA

Legend

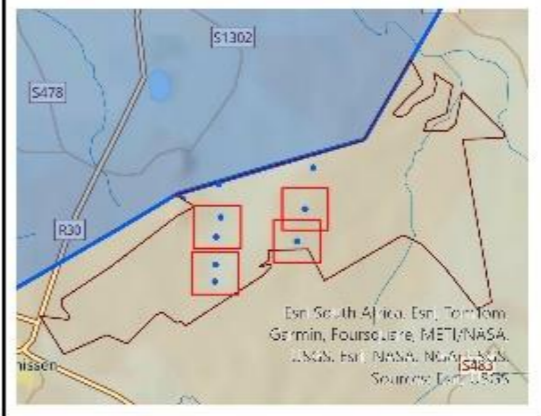
- Exploration Right (ER94)
- Existing Production Right
- Prospective Drill site (ER94)
- 100m Buffer

Crop Sensitivities

- High

0 100 200 300 400 500 m

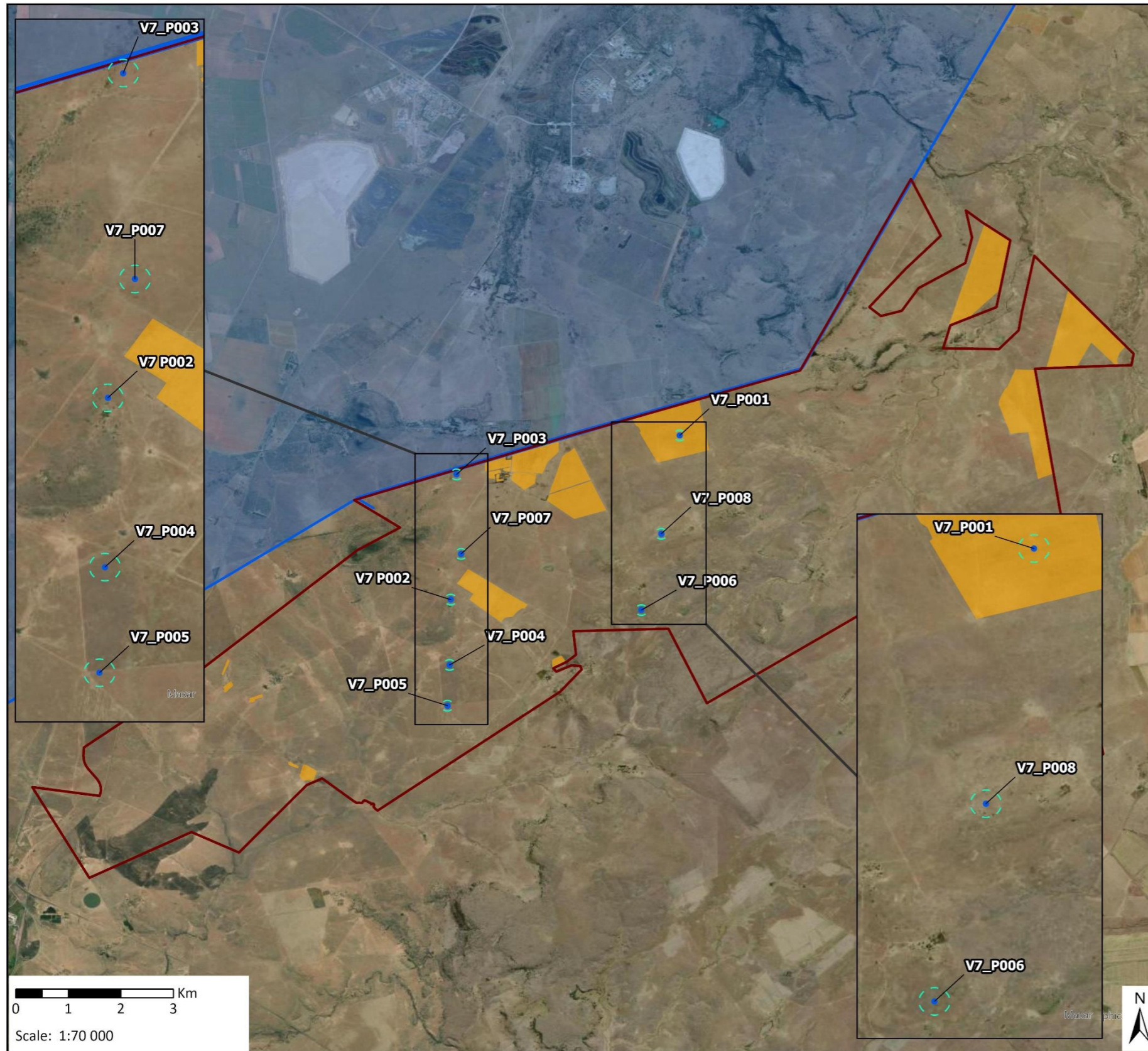
Scale: 1:13 500



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_CropBoundary

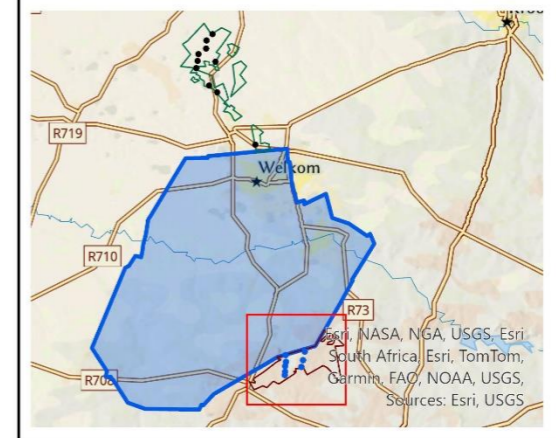
Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Field Crop Sensitivity (ER94)
1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER94)
 - Prospective Drill site (ER32)
 - Exploration Right (ER94)
 - Existing Production Right
 - 100m Buffer
- Crop Sensitivities**
- High



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_CropBoundary







Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW

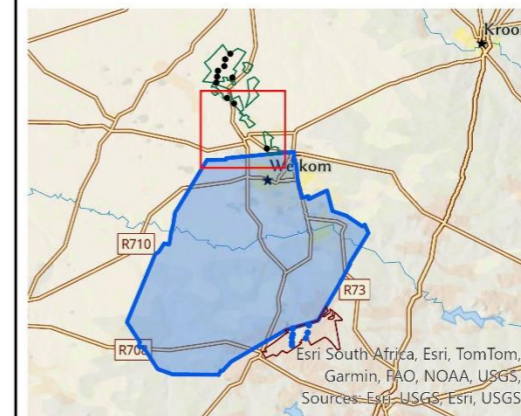


Field Crop Sensitivity (ER32)

1610 Tetra4 PR Extension BA

Legend

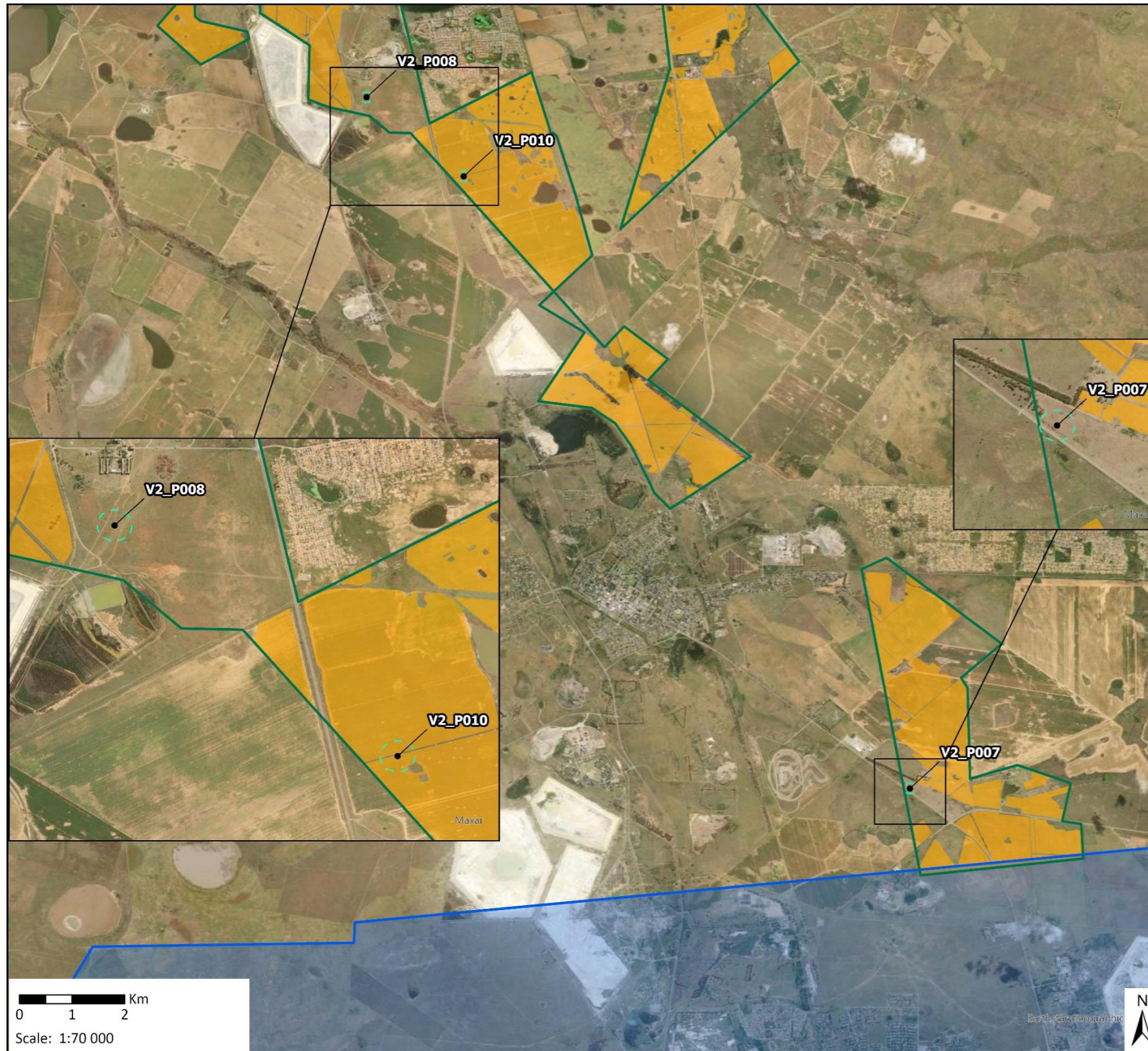
-  Existing Production Right
 -  Exploration Right (ER32)
 -  Prospective Drill site (ER32)
 -  Prospective Drill site (ER94)
 -  100m Buffer
- Crop Sensitivities
-  High

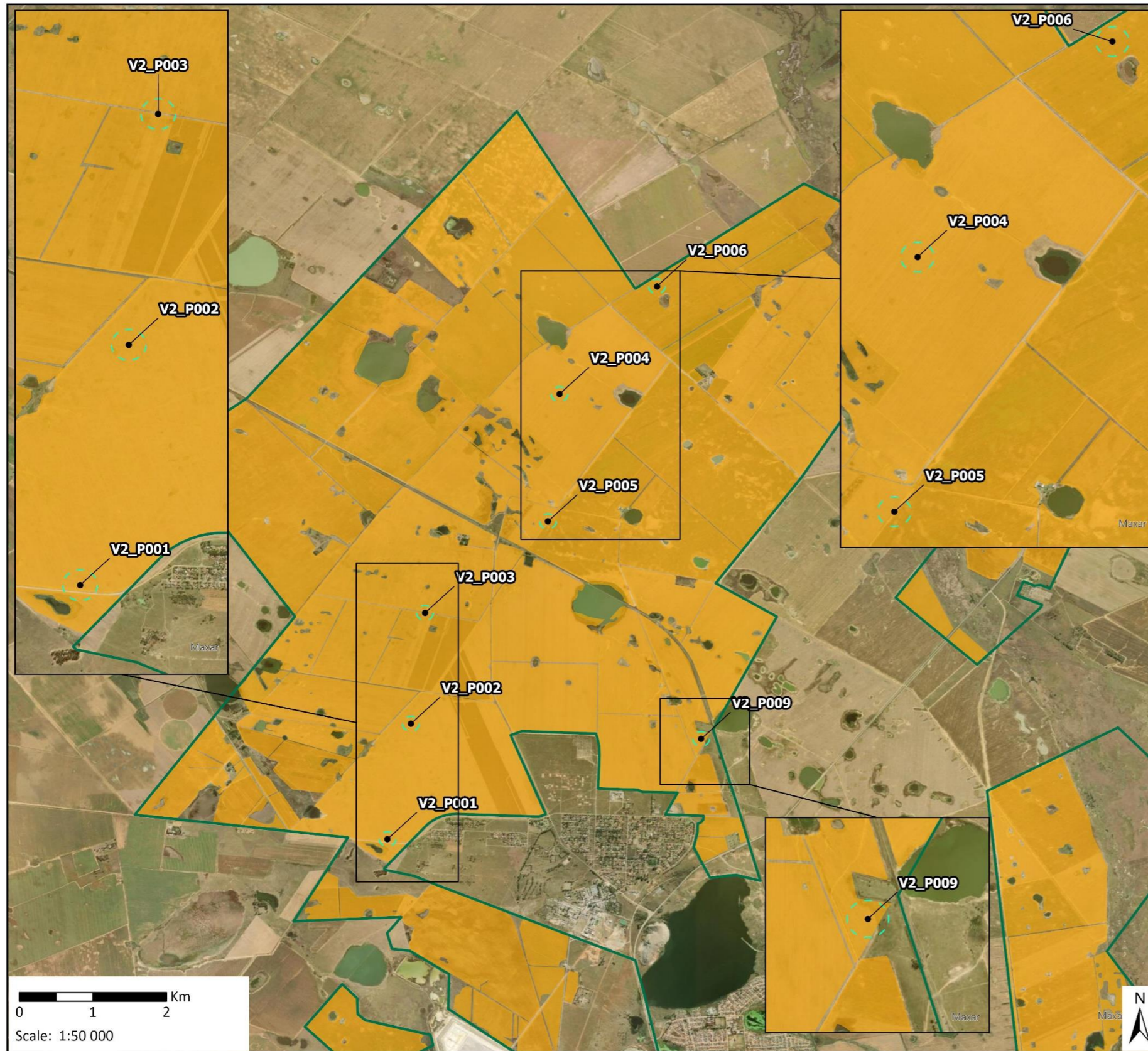


Data Sources:

CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_CropBoundary

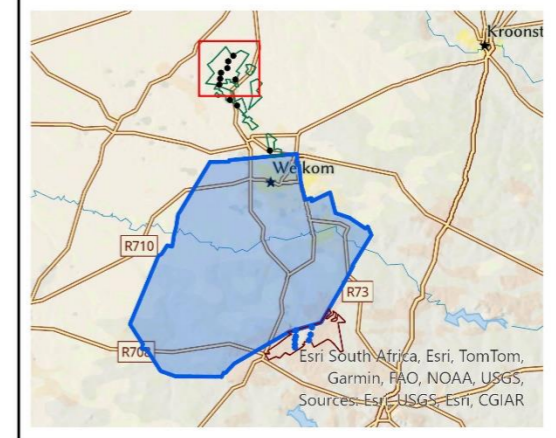
Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Field Crop Sensitivity (ER32)
1610 Tetra4 PR Extension BA

- Legend**
- Exploration Right (ER32)
 - Prospective Drill site (ER32)
 - Prospective Drill site (ER94)
 - 100m Buffer
- Crop Sensitivities**
- High

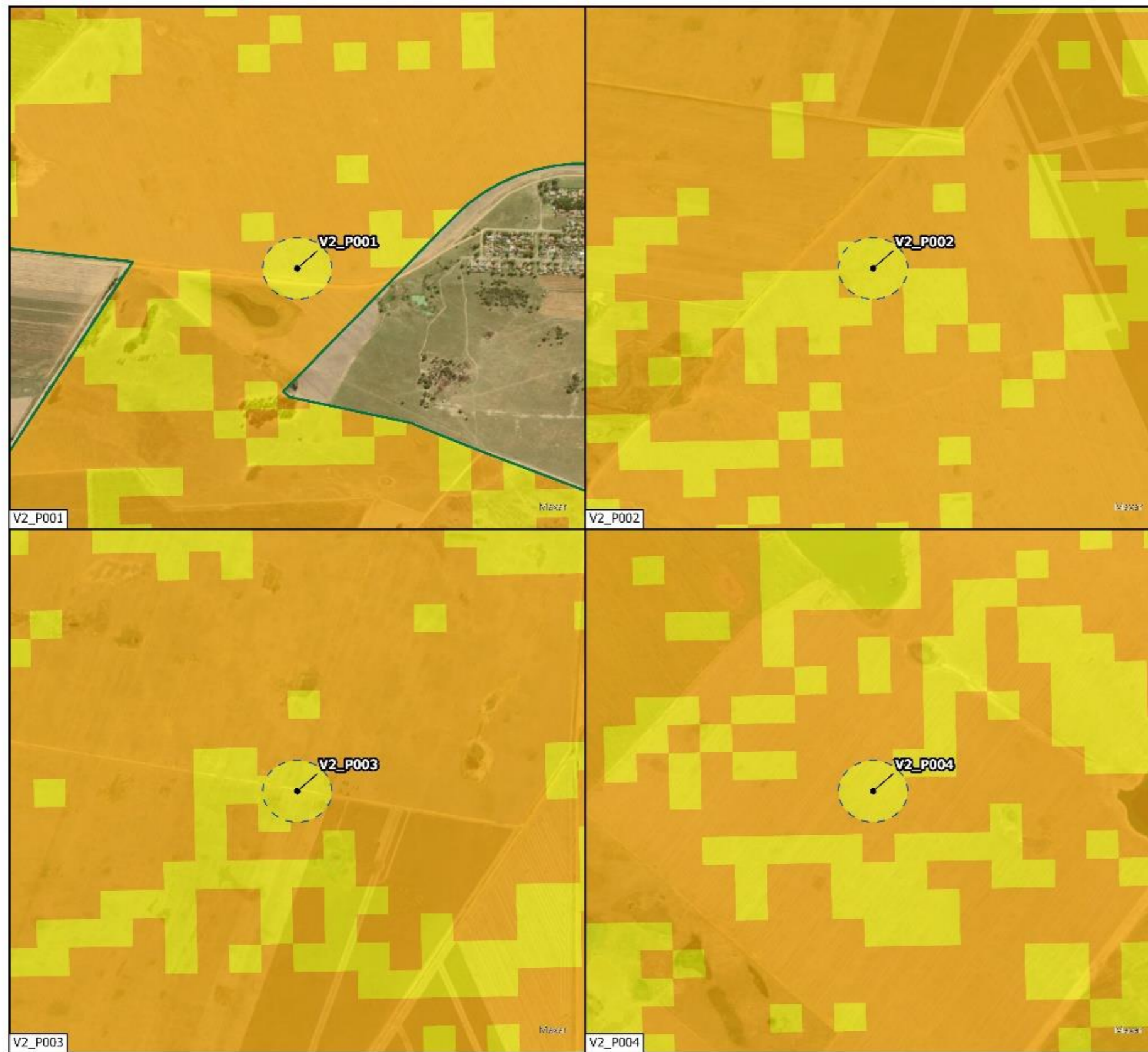


Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_CropBoundary

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW



1.4 LAND CAPABILITY SENSITIVITY



Land Capability Sensitivity (ER32) (V2_P001 - V2_P004) 1610 Tetra4 PR Extension BA

Legend

- Exploration Right (ER32)
- Existing Production Right
- Prospective Drill site (ER32)
- 100m Buffer (Surveyed Area)

Land Capability Sensitivity

- High
- Medium
- Low

0 100 200 300 400 500 m

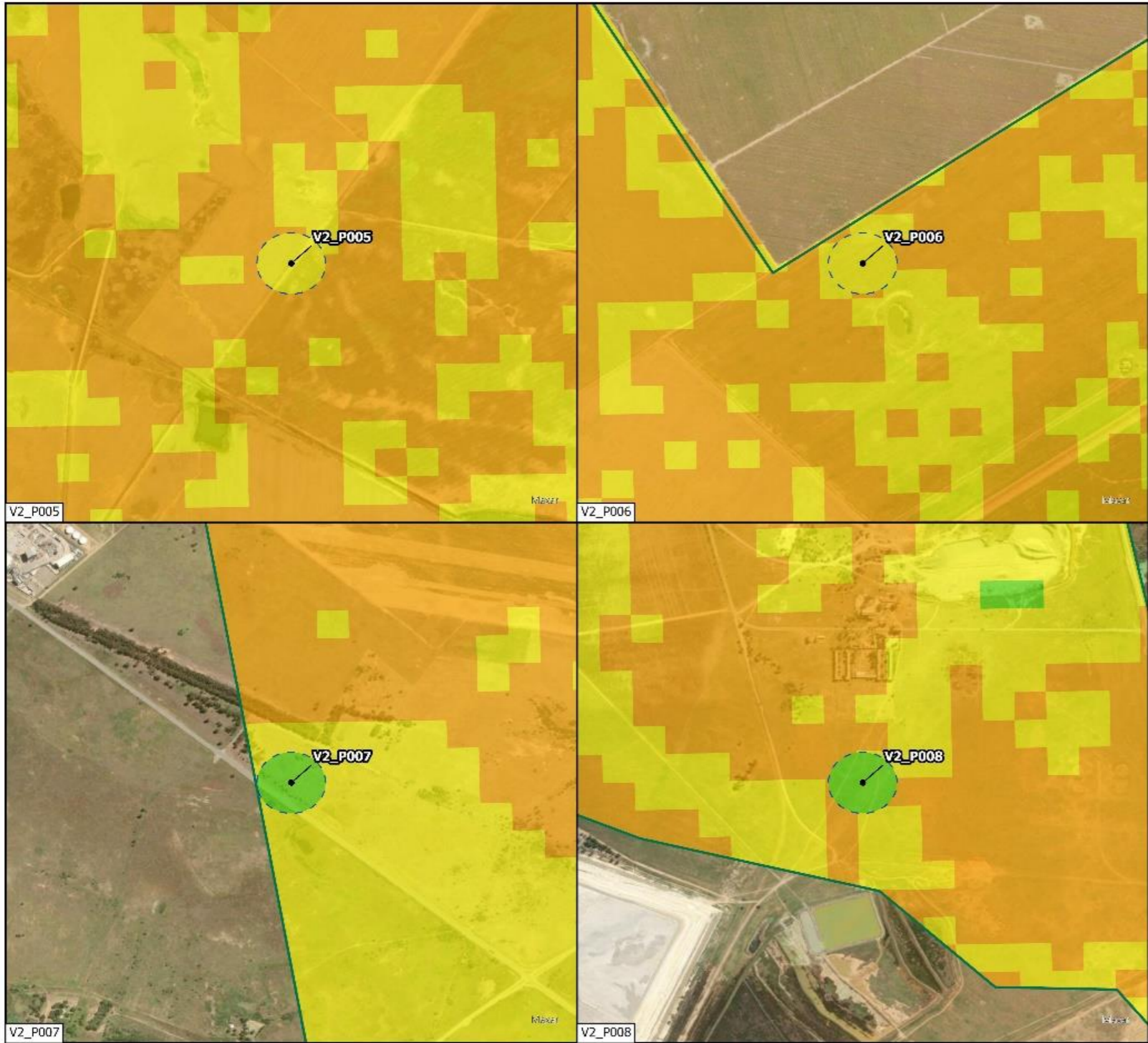
Scale: 1:12 000



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_LandCapabilitySensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Land Capability Sensitivity (ER32)
(V2_P005 - V2_P008)
 1610 Tetra4 PR Extension BA

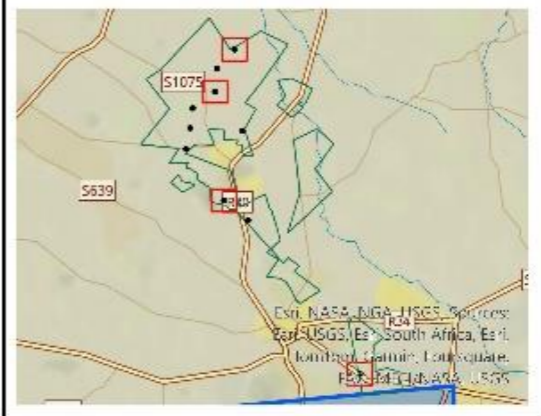
Legend

- Exploration Right (ER32)
- Existing Production Right
- Prospective Drill site (ER32)
- 100m Buffer (Surveyed Area)

Land Capability Sensitivity

- High
- Medium
- Low

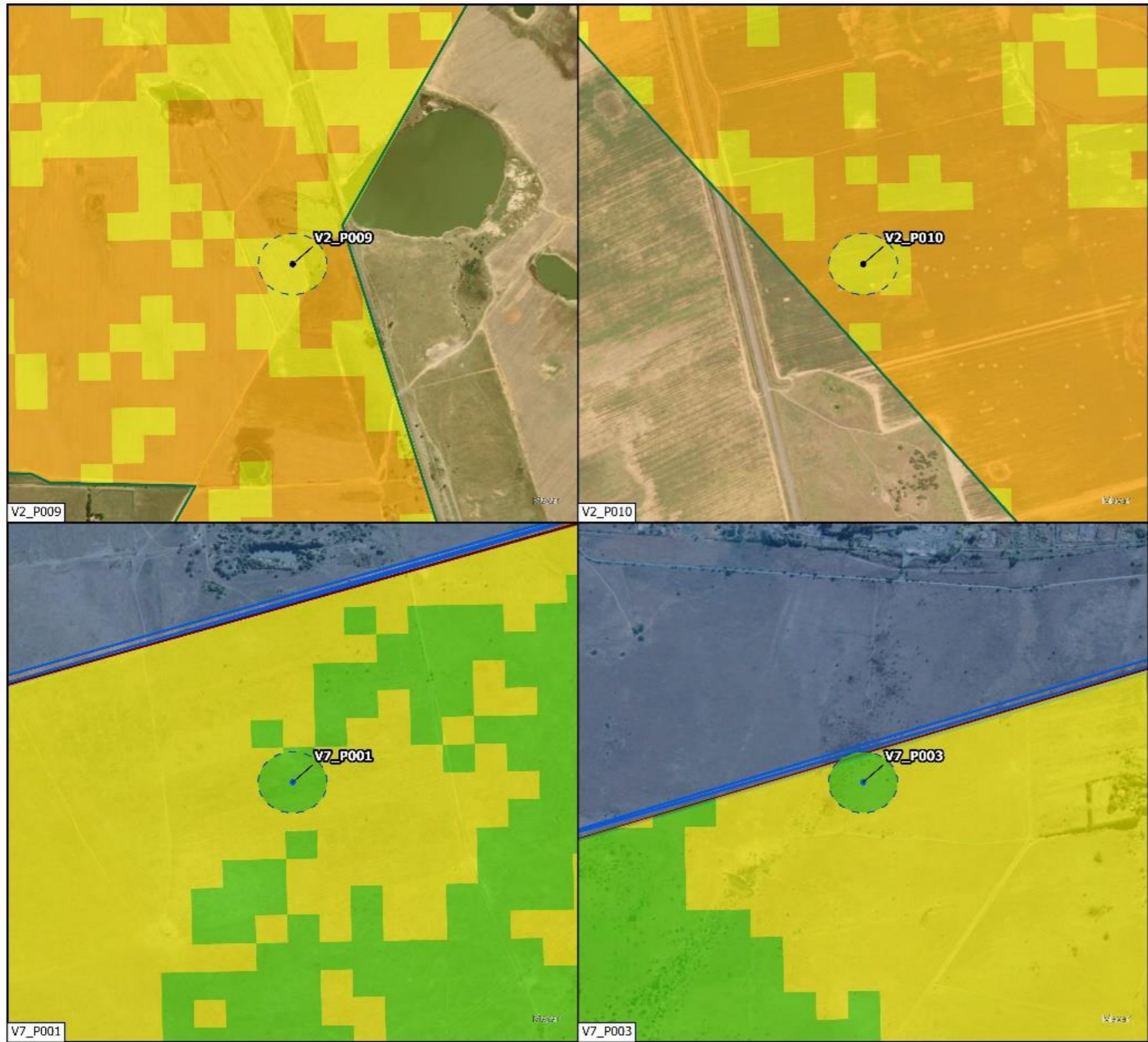
0 100 200 300 400 500 m
 Scale: 1:12 000



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_LandCapabilitySensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW

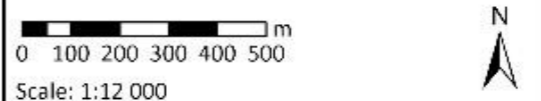




Land Capability Sensitivity
ER32 & ER94
 1610 Tetra4 PR Extension BA

Legend

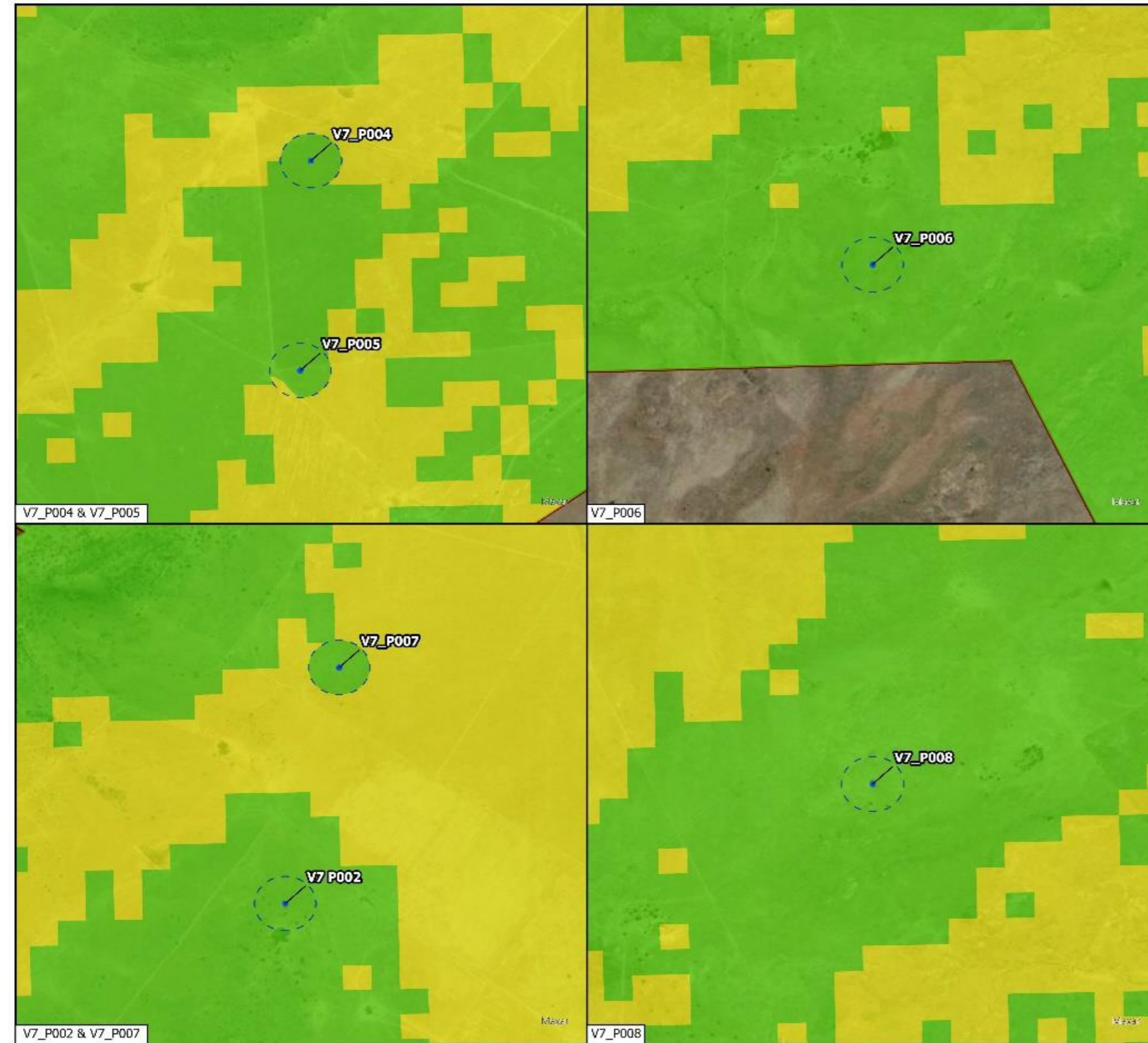
- Exploration Right (ER94)
- Exploration Right (ER32)
- Existing Production Right
- Prospective Drill site (ER32)
- Prospective Drill site (ER94)
- 100m Buffer (Surveyed Area)
- High
- Medium
- Low



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_LandCapabilitySensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Land Capability Sensitivity (ER94)
(V7_P002, V7P004 - V7_P008)
 1610 Tetra4 PR Extension BA

Legend

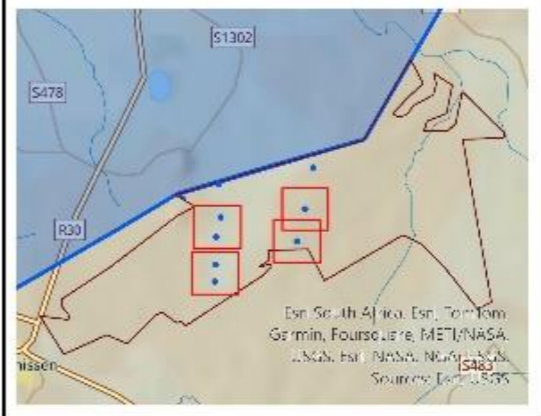
- Exploration Right (ER94)
- Existing Production Right
- Prospective Drill site (ER94)
- 100m Buffer (Surveyed Area)

Land Capability Sensitivity

- High
- Medium
- Low

0 100 200 300 400 500 m

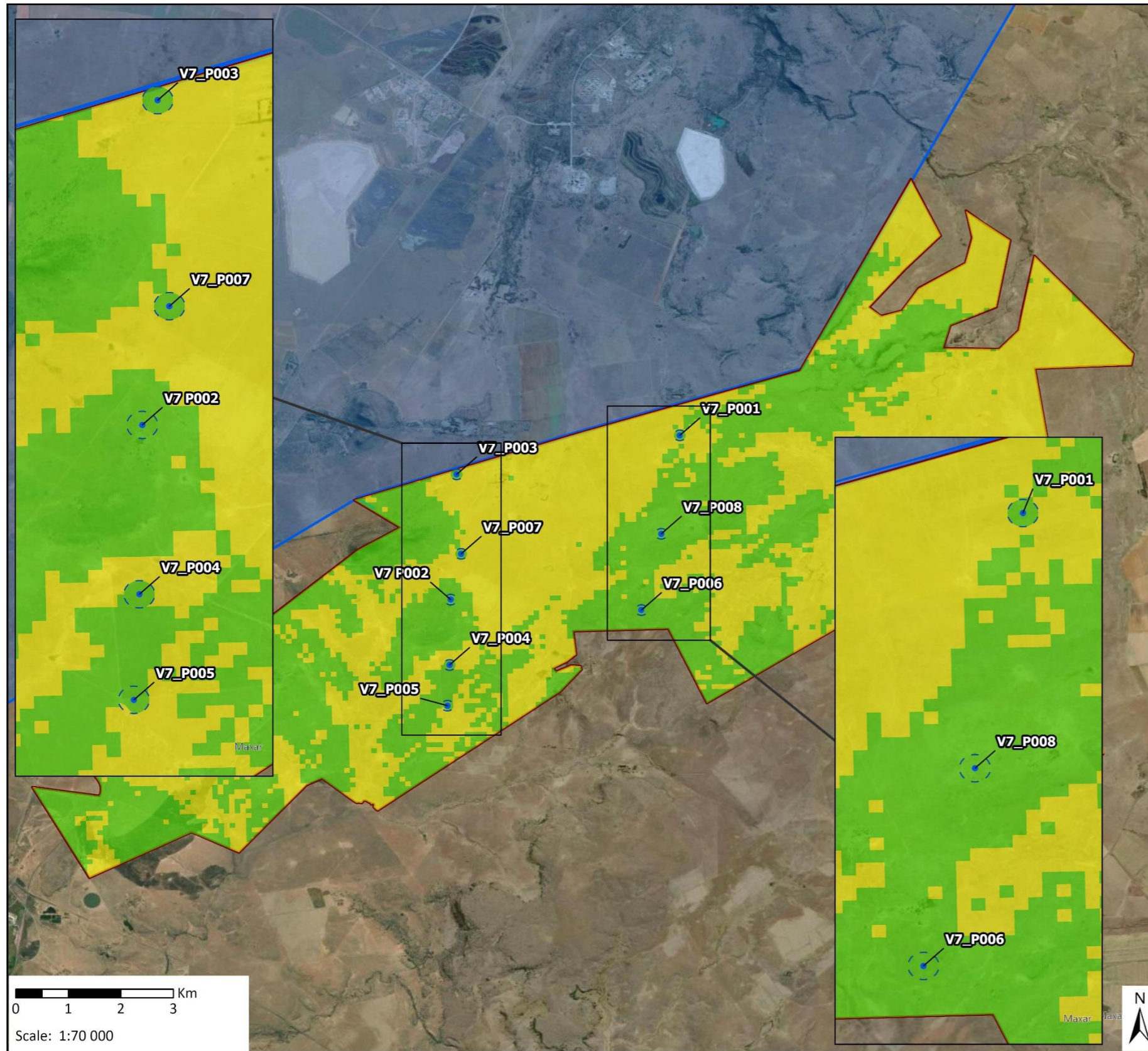
Scale: 1:13 500



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_LandCapabilitySensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW



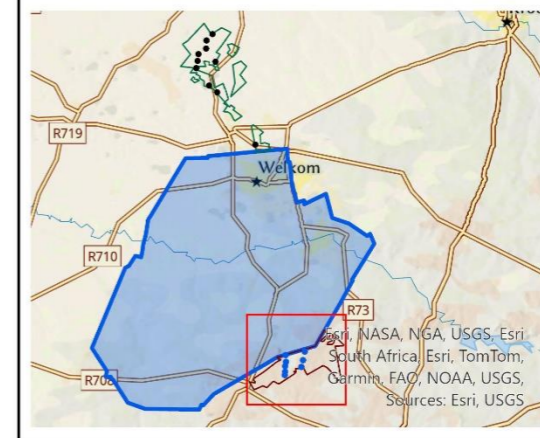


Land Capability Sensitivity (ER94)

1610 Tetra4 PR Extension BA

Legend

- Prospective Drill site (ER94)
 - Exploration Right (ER94)
 - Existing Production Right
 - 100m Buffer (Surveyed Area)
- Land Capability Sensitivity**
- High
 - Medium
 - Low

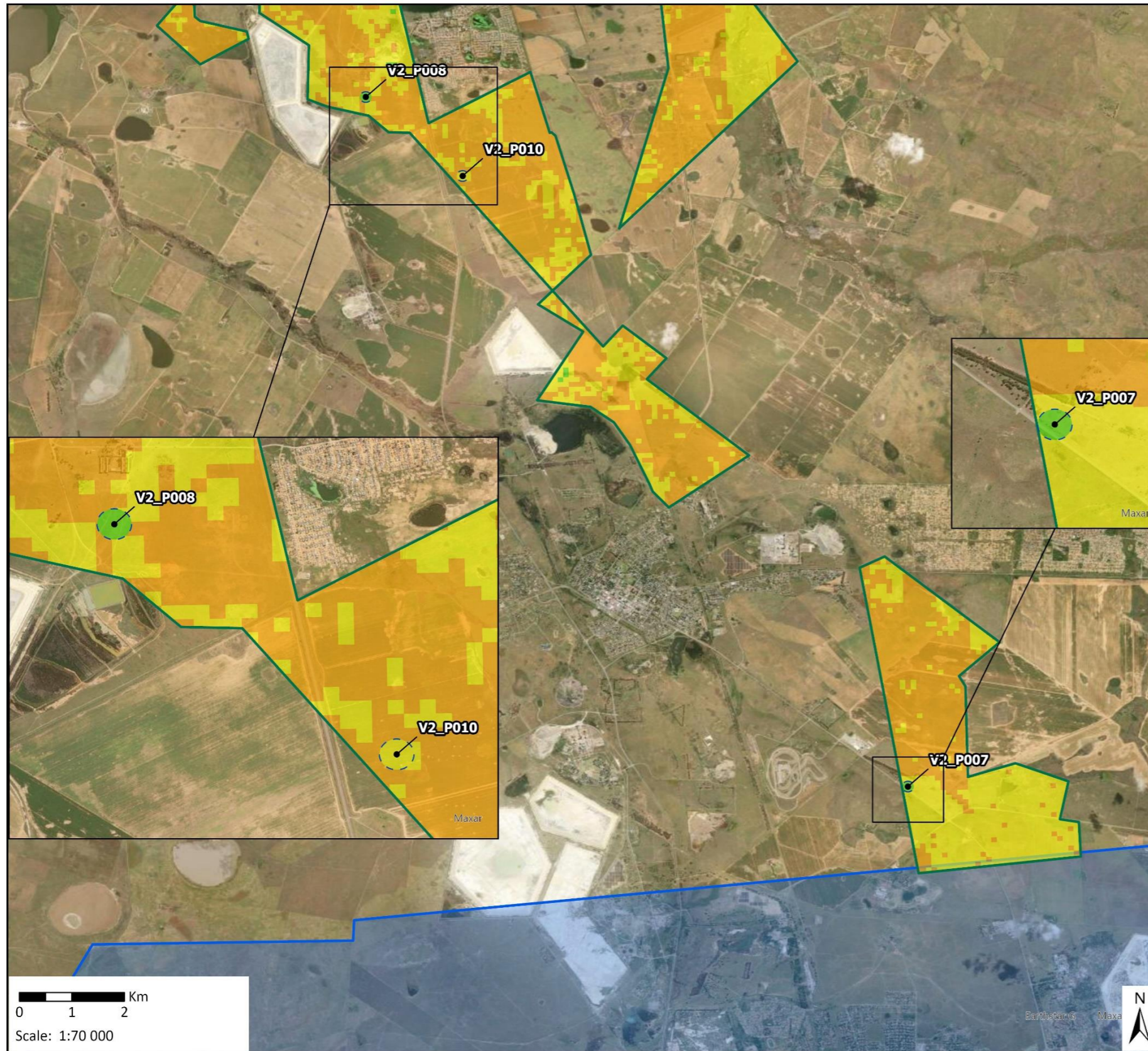


Data Sources:

CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_LandCapabilitySensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Land Capability Sensitivity (ER32)
1610 Tetra4 PR Extension BA

Legend

- Existing Production Right
- Exploration Right (ER32)
- Prospective Drill site (ER32)
- 100m Buffer (Surveyed Area)

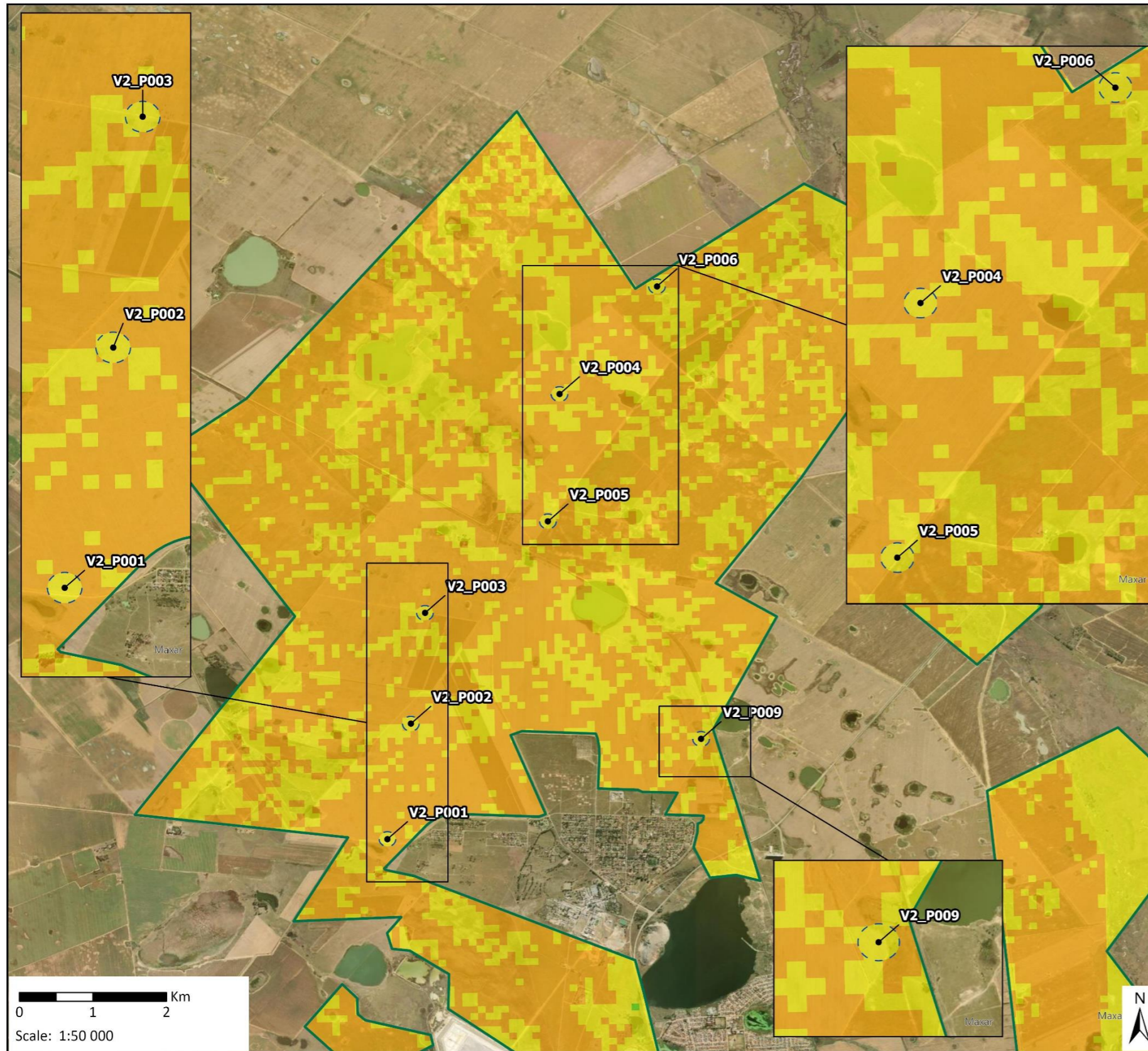
Land Capability Sensitivity

- High
- Medium
- Low

Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_LandCapabilitySensitivity

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW









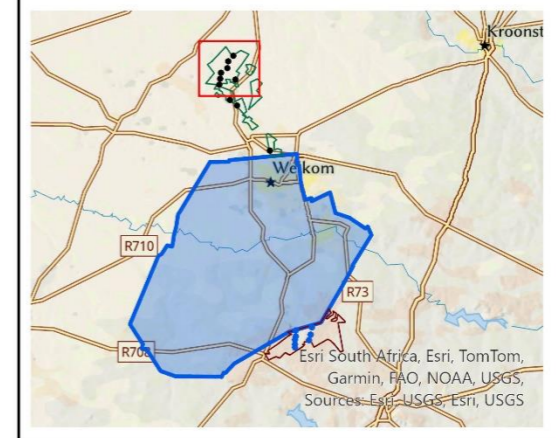


Land Capability Sensitivity (ER32)

1610 Tetra4 PR Extension BA

Legend

-  Exploration Right (ER32)
 -  Prospective Drill site (ER32)
 -  100m Buffer (Surveyed Area)
- Land Capability Sensitivity**
-  High
 -  Medium
 -  Low

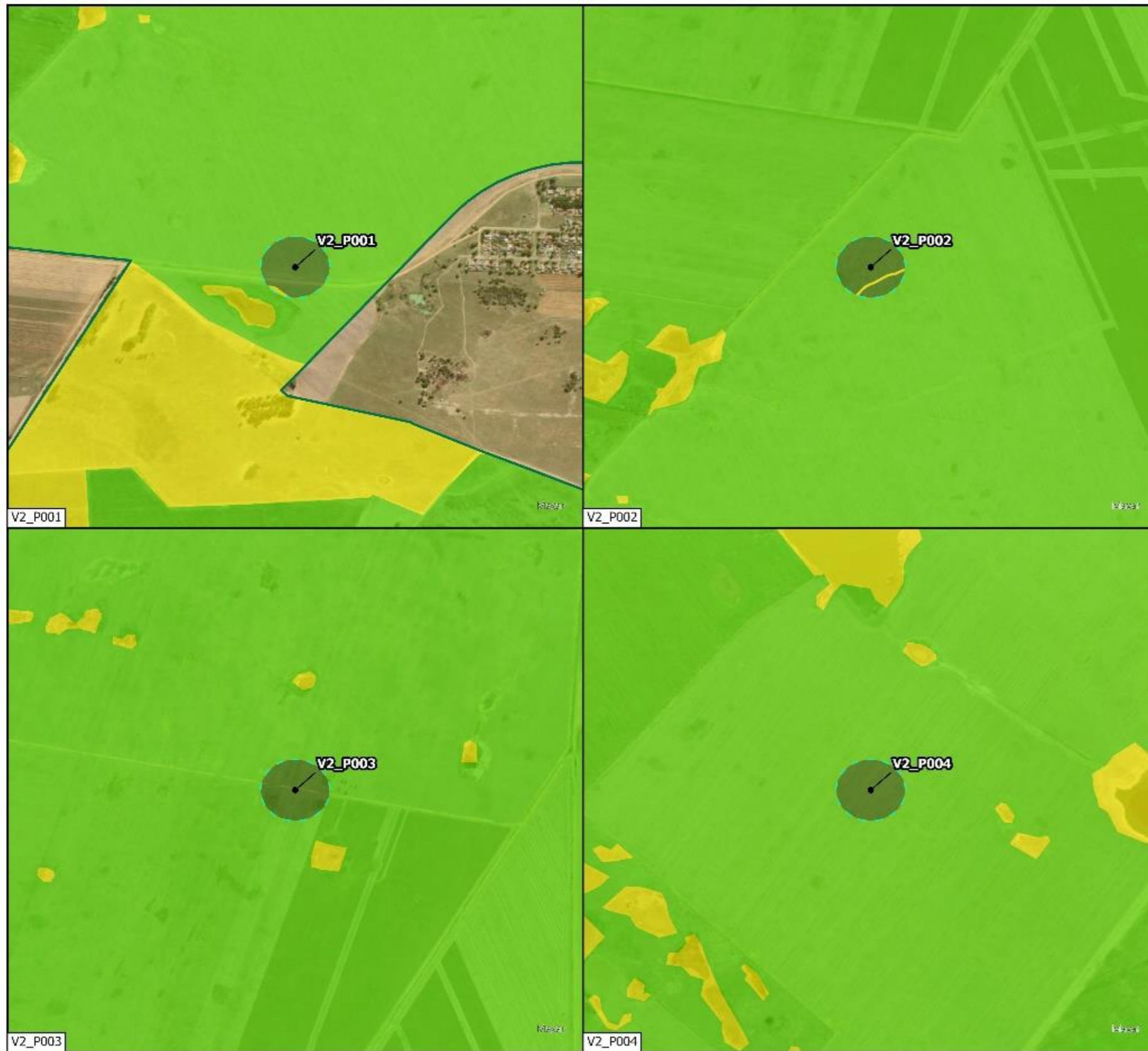


Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_LandCapabilitySensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW



1.5 TERRESTRIAL BIODIVERSITY SENSITIVITY



Terrestrial Sensitivity (ER32) (V2_P001 - V2_P004) 1610 Tetra4 PR Extension BA

Legend

- Exploration Right (ER32)
- Existing Production Right
- Prospective Drill site (ER32)
- 100m Buffer (Surveyed Area)

Terrestrial Habitat Sensitivity

- High
- Medium
- Low
- Least Concern

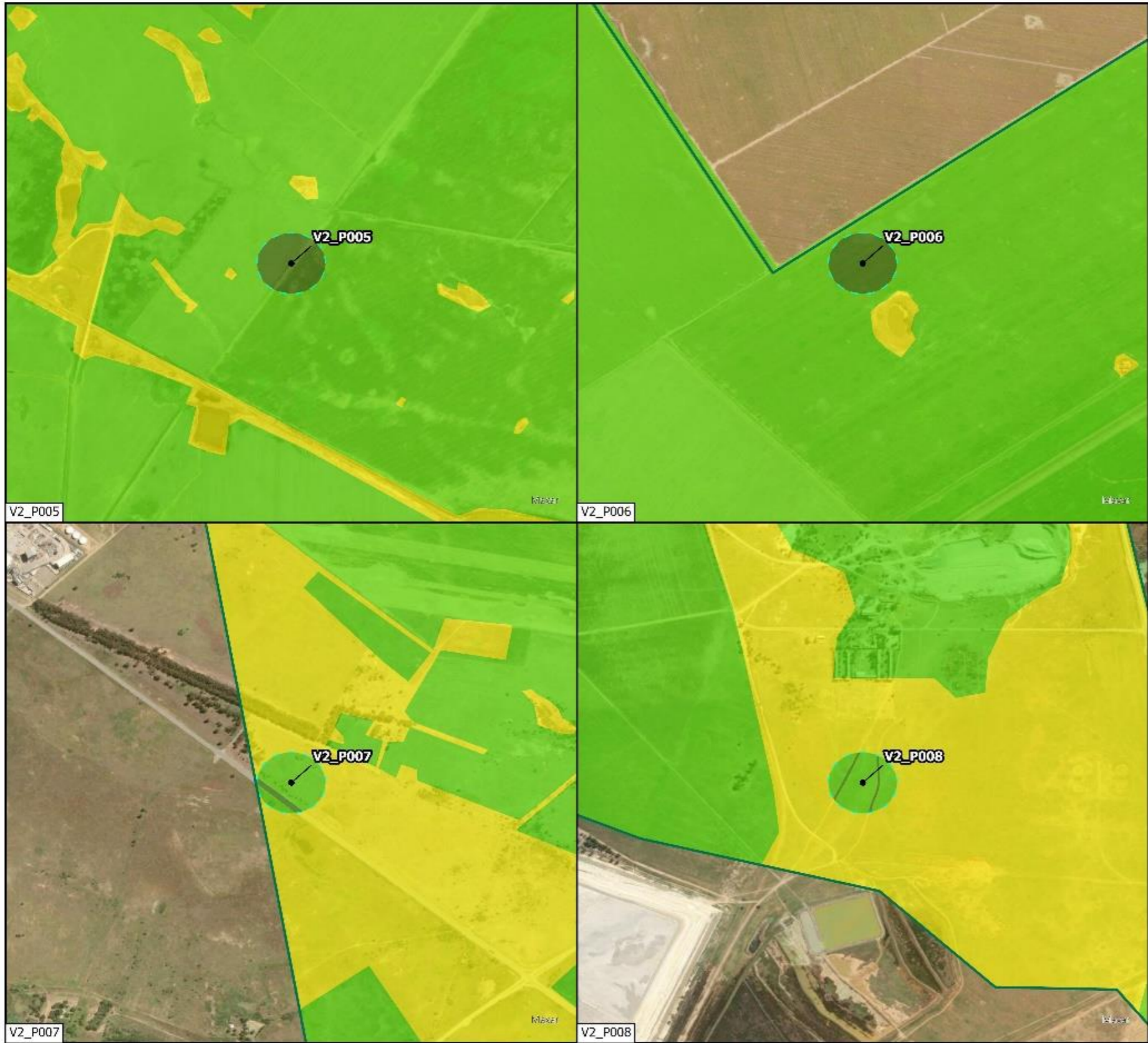
0 100 200 300 400 500 m

Scale: 1:12 000

Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_TerrestrialSensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Terrestrial Sensitivity (ER32)
(V2_P005 - V2_P008)
 1610 Tetra4 PR Extension BA

Legend

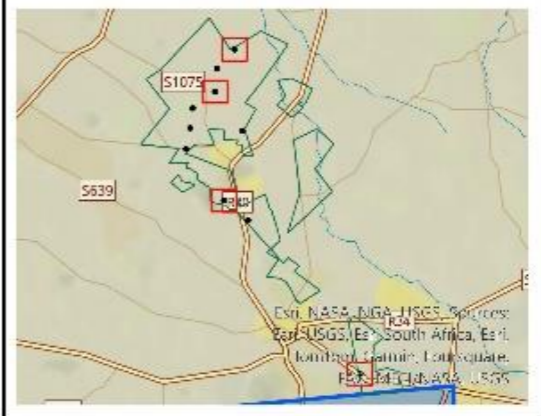
- Exploration Right (ER32)
- Existing Production Right
- Prospective Drill site (ER32)
- 100m Buffer (Surveyed Area)

Terrestrial Habitat Sensitivity

- High
- Medium
- Low
- Least Concern

0 100 200 300 400 500 m

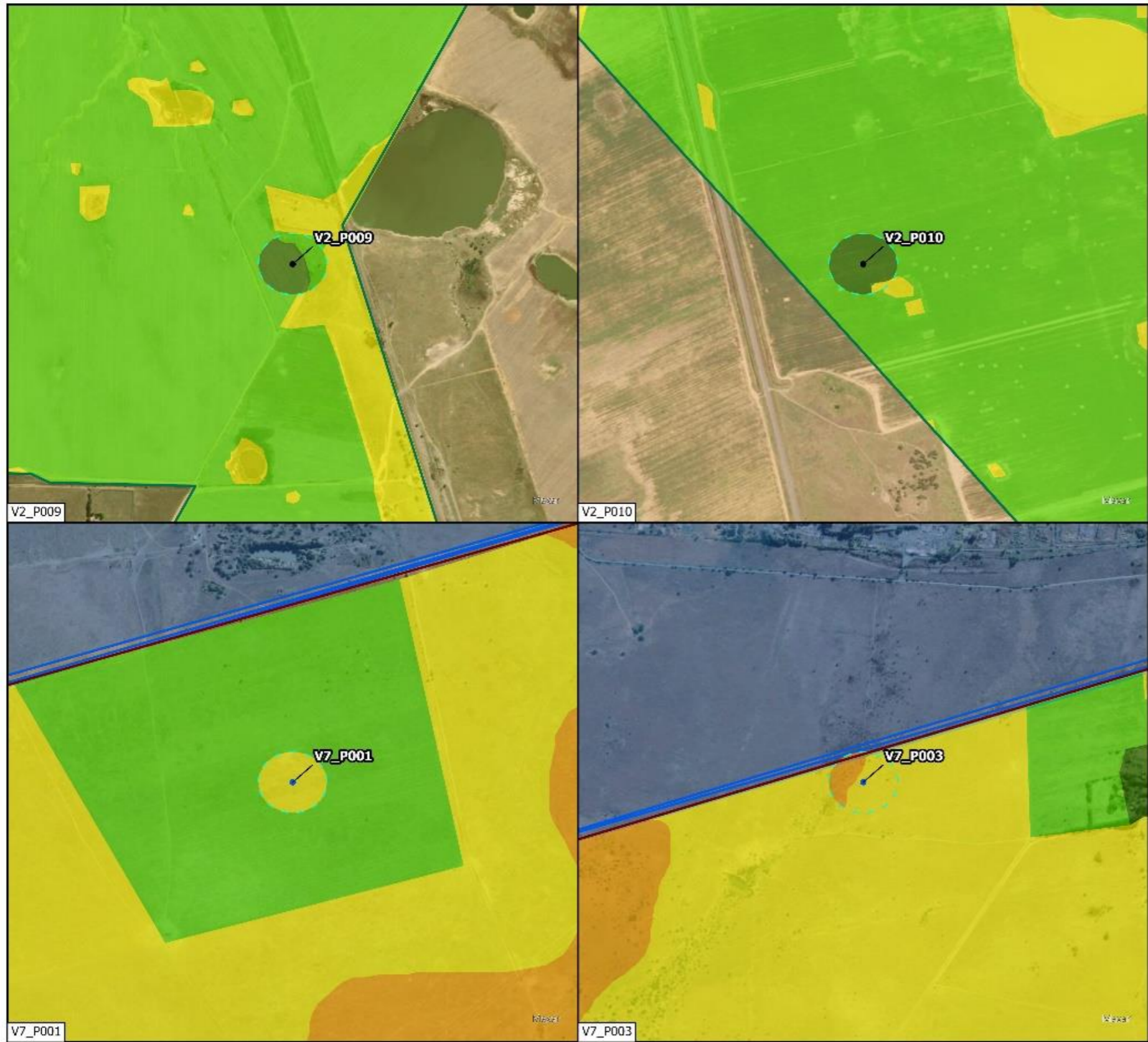
Scale: 1:12 000



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_TerrestrialSensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW

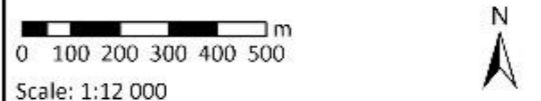




Terrestrial Sensitivity
ER32 & ER94
 1610 Tetra4 PR Extension BA

Legend

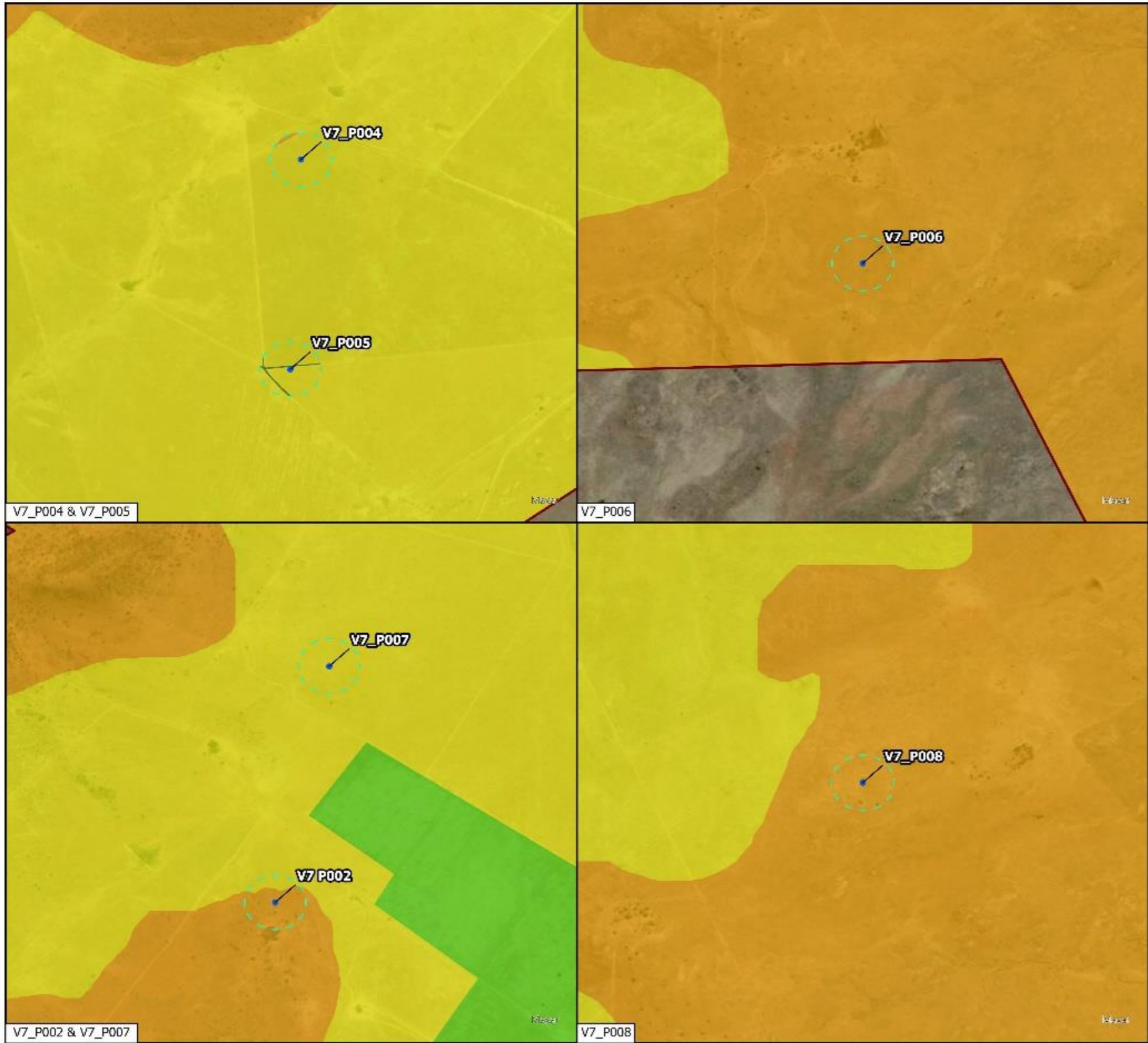
Exploration Right (ER94)	100m Buffer (Surveyed Area)	
Exploration Right (ER32)	Terrestrial Habitat Sensitivity	
Existing Production Right		High
Prospective Drill site (ER32)		Medium
Prospective Drill site (ER94)		Low
	Least Concern	



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_TerrestrialSensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Terrestrial Sensitivity (ER94)
(V7_P002, V7_P004 - V7_P008)
 1610 Tetra4 PR Extension BA

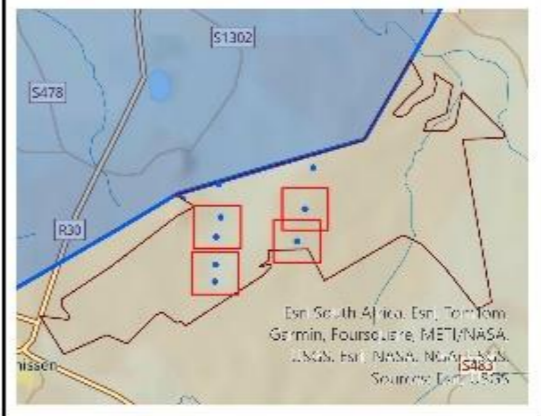
Legend

- Exploration Right (ER94)
- Existing Production Right
- Prospective Drill site (ER94)
- 100m Buffer (Surveyed Area)

Terrestrial Habitat Sensitivity

- High
- Medium
- Low
- Least Concern

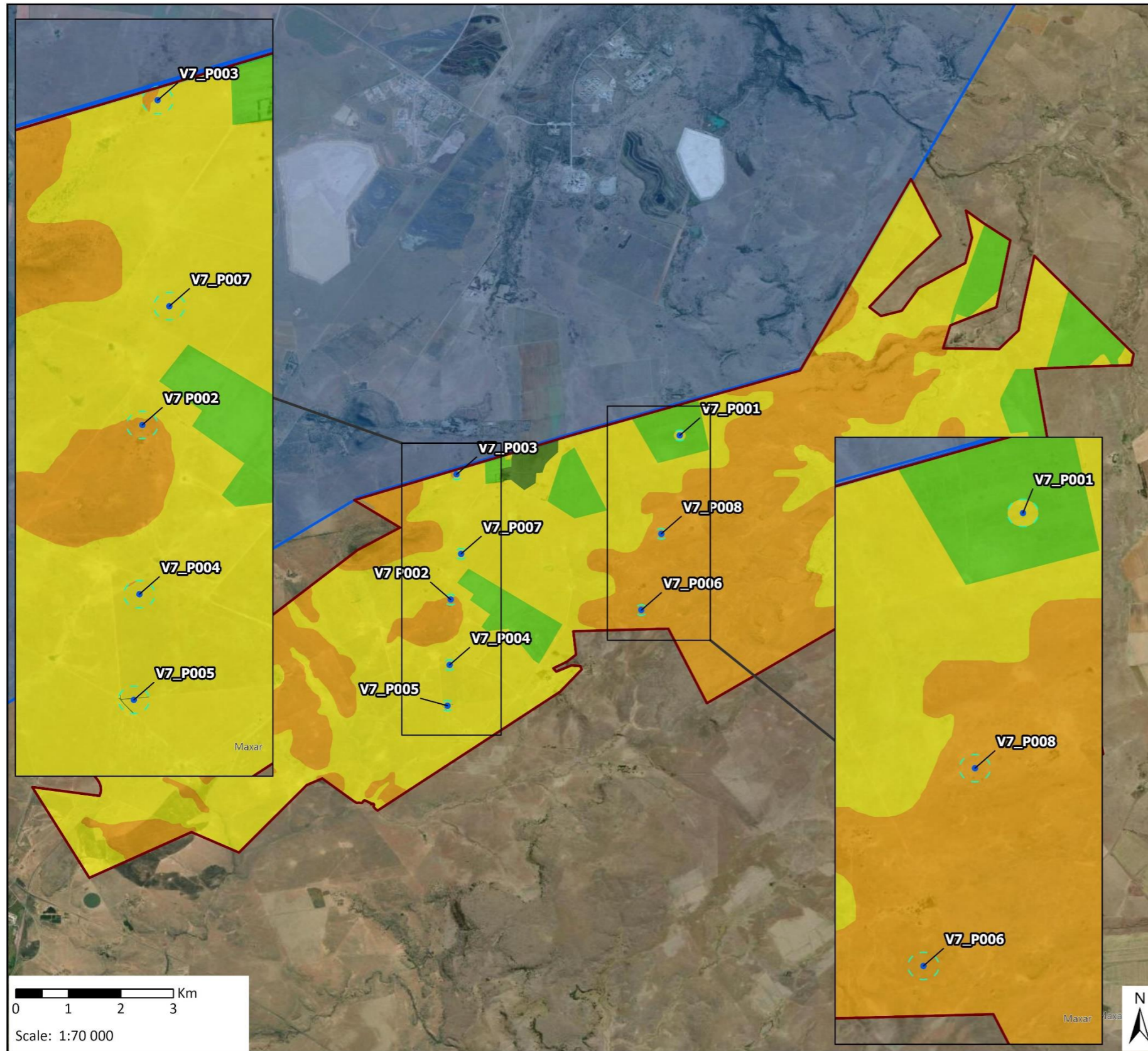
0 100 200 300 400 500 m
 Scale: 1:13 500



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_TerrestrialSensitivity

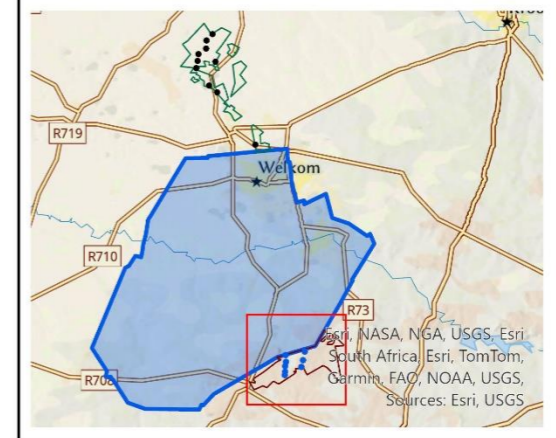
Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Terrestrial Sensitivity (ER94)
1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER94)
 - Exploration Right (ER94)
 - Existing Production Right
 - 100m Buffer (Surveyed Area)
- Terrestrial Habitat Sensitivity**
- High
 - Medium
 - Low
 - Least Concern



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_TerrestrialSensitivity

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW



Terrestrial Sensitivity (ER32)





1610 Tetra4 PR Extension BA

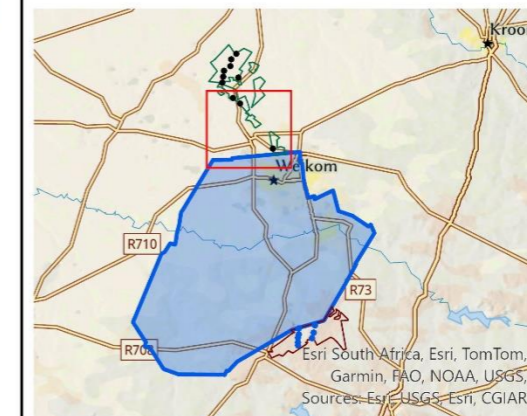
Legend

-  Existing Production Right
-  Exploration Right (ER32)
-  Prospective Drill site (ER32)

 100m Buffer (Surveyed Area)

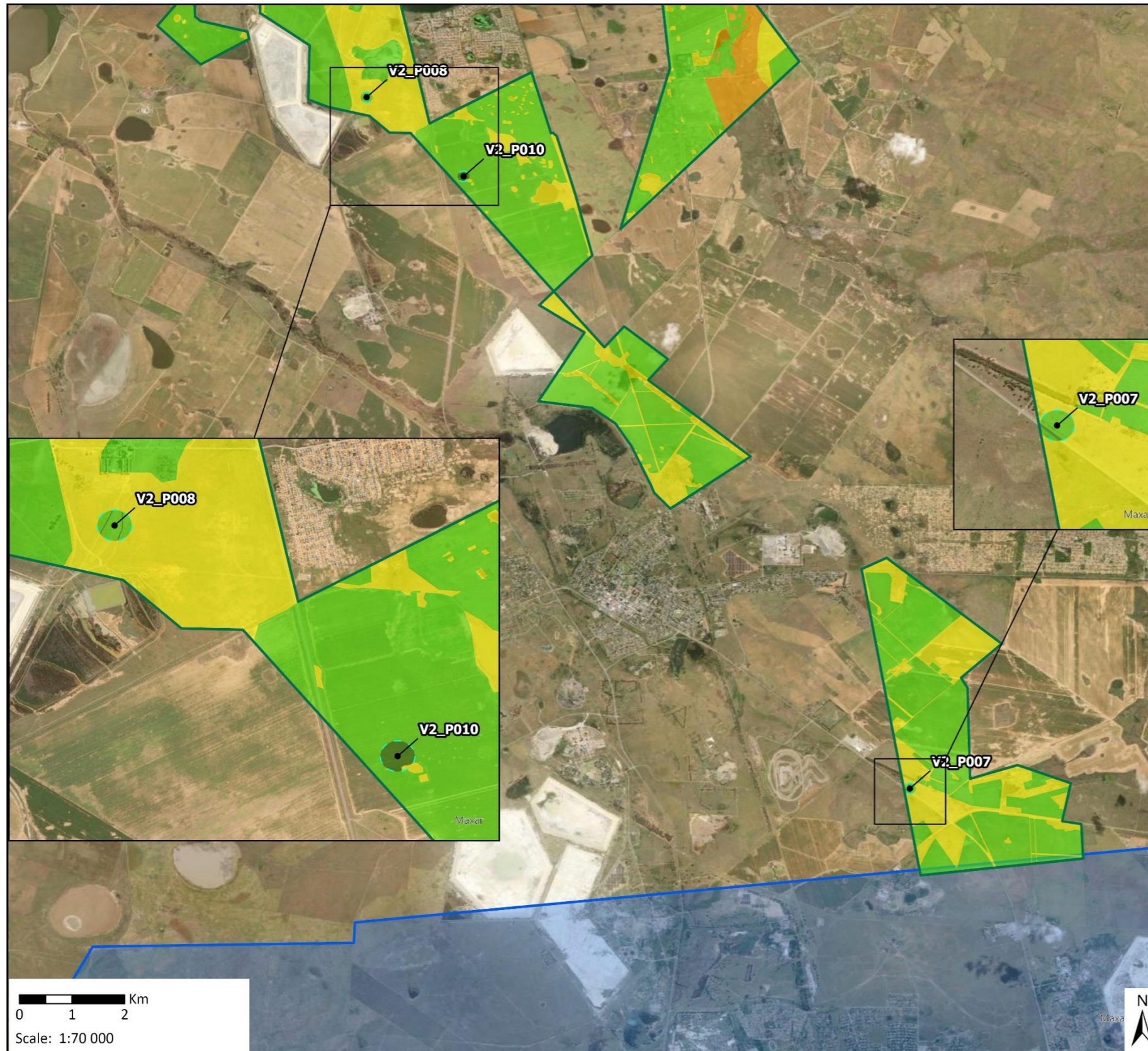
Terrestrial Habitat Sensitivity

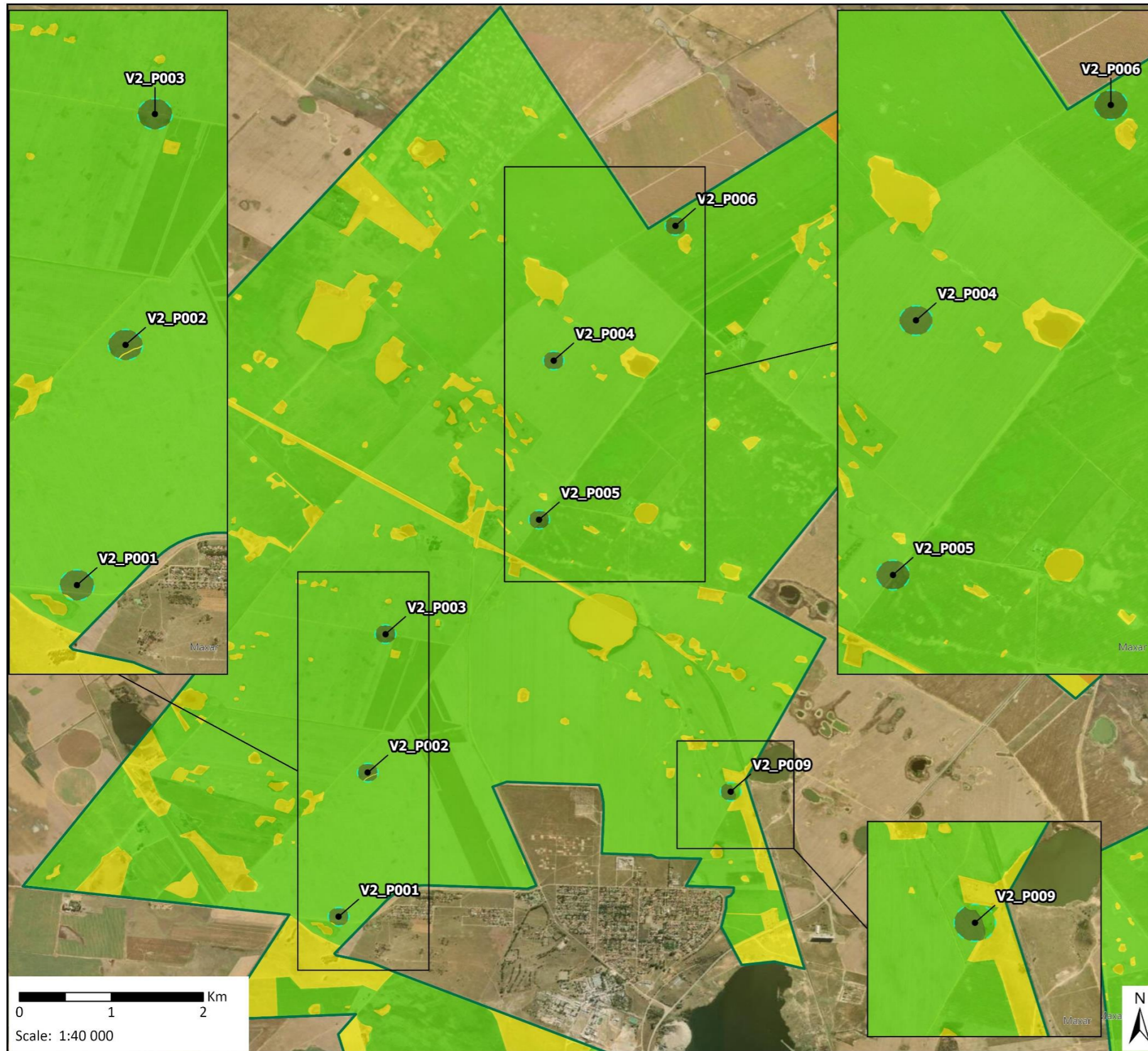
-  High
-  Medium
-  Low
-  Least Concern



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_TerrestrialSensitivity

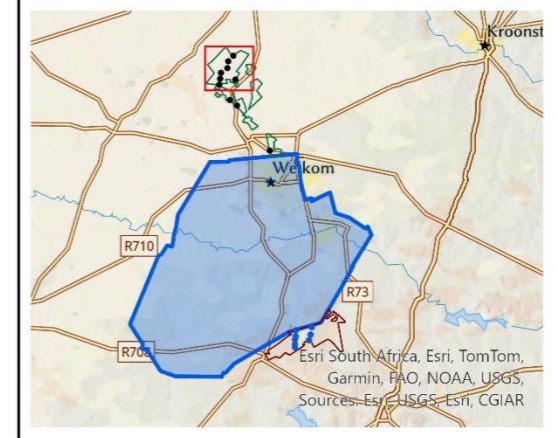
Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Terrestrial Sensitivity (ER32)
1610 Tetra4 PR Extension BA

- Legend**
- Exploration Right (ER32)
 - Prospective Drill site (ER32)
 - 100m Buffer (Surveyed Area)
- Terrestrial Habitat Sensitivity**
- High
 - Medium
 - Low
 - Least Concern

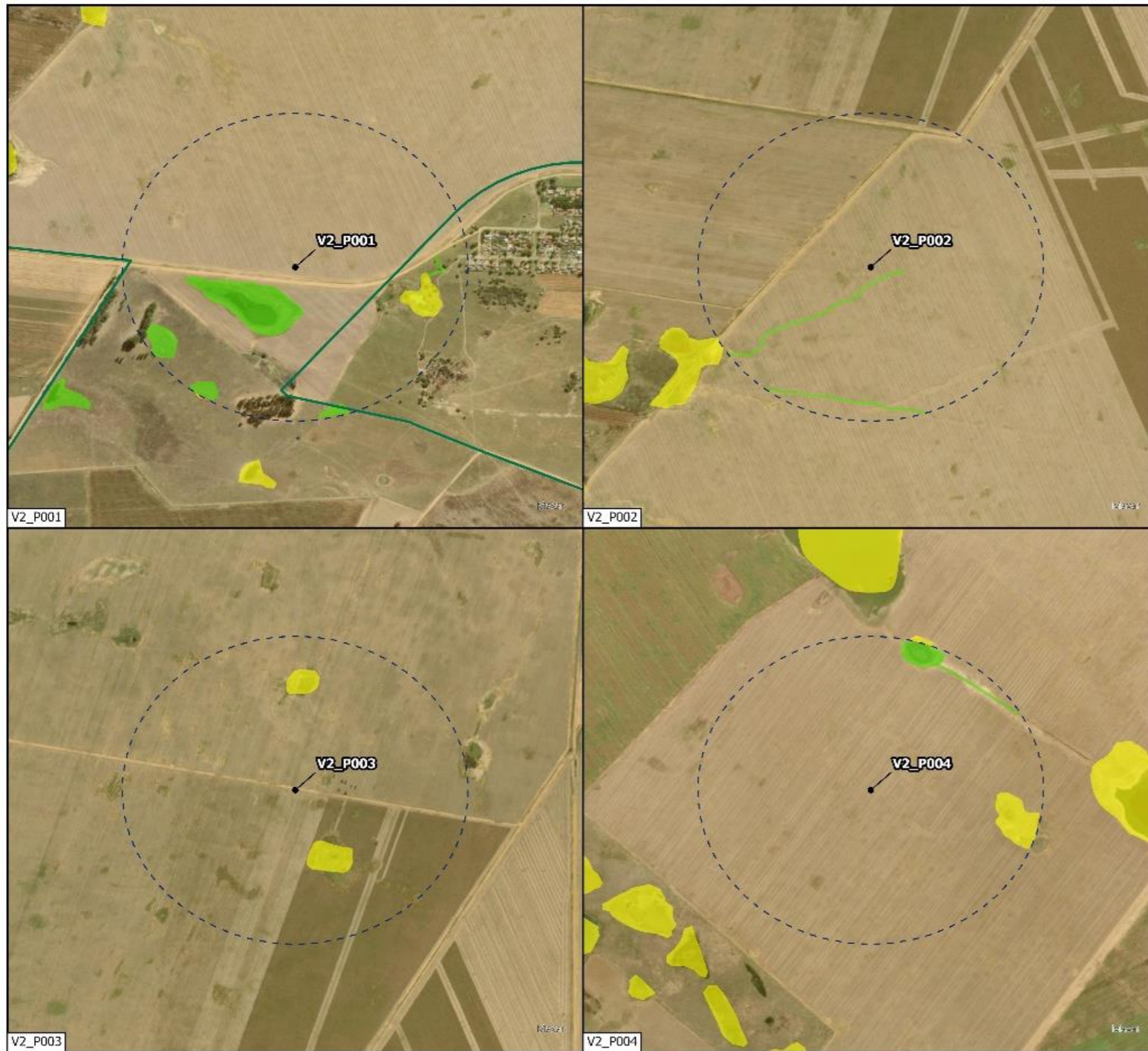


Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_TerrestrialSensitivity

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW

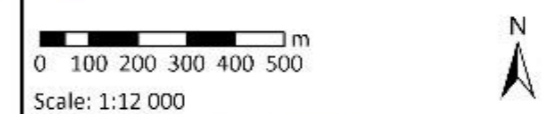


1.6 WETLAND SENSITIVITY



Wetland Sensitivity (ER32) (V2_P001 - V2_P004) 1610 Tetra4 PR Extension BA

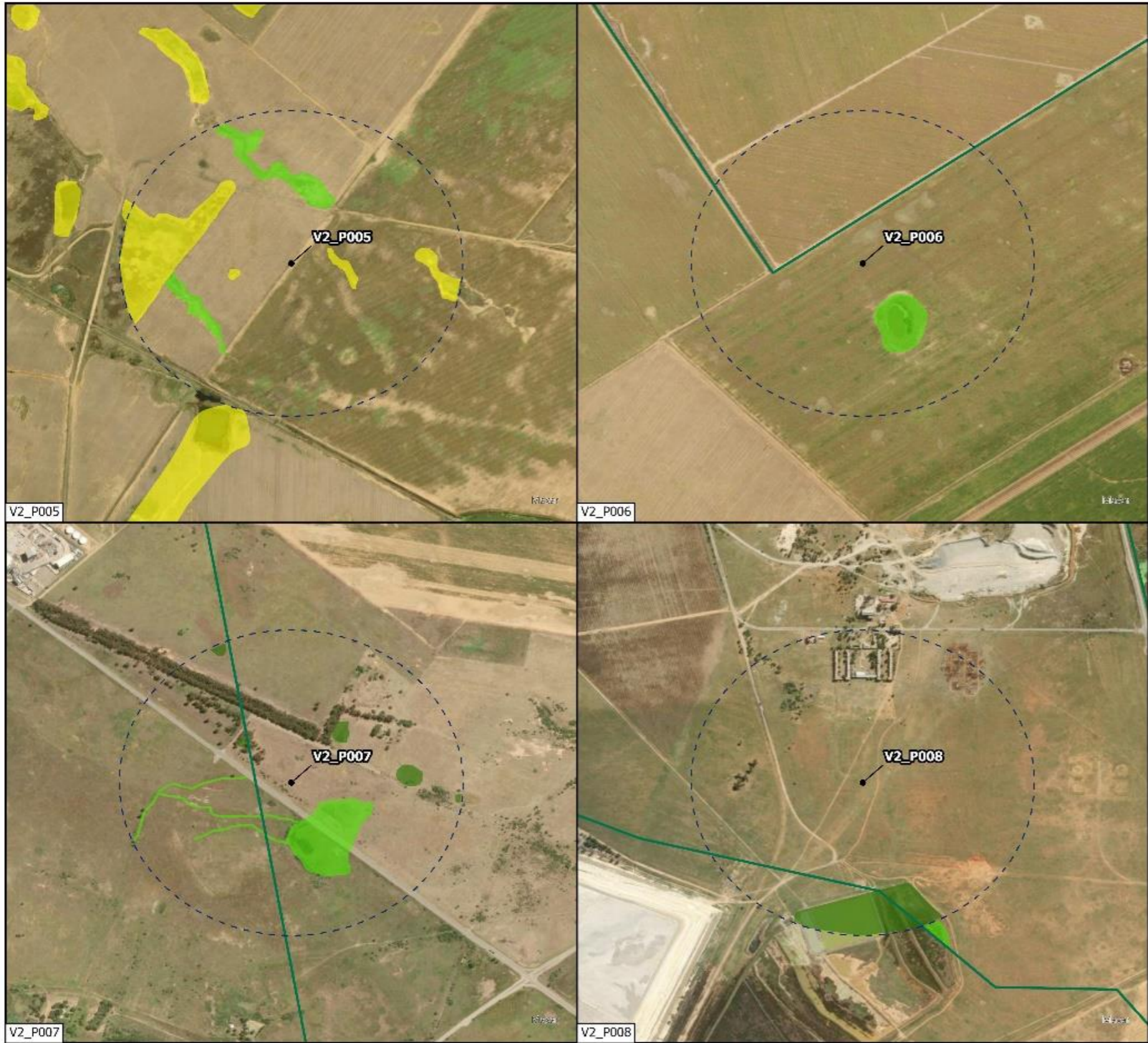
- Legend**
- Exploration Right (ER32)
 - Existing Production Right
 - Prospective Drill site (ER32)
 - 500m Buffer (Surveyed Area)
- Wetland Sensitivity**
- Least Concern
 - Low
 - Medium
 - High



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_WetlandSensitivity

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW





Wetland Sensitivity (ER32)
(V2_P005 - V2_P008)
 1610 Tetra4 PR Extension BA

Legend

- Exploration Right (ER32)
- Existing Production Right
- Prospective Drill site (ER32)
- 500m Buffer (Surveyed Area)

Wetland Sensitivity

- Least Concern
- Low
- Medium
- High

0 100 200 300 400 500 m
 Scale: 1:12 000



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_WetlandSensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW

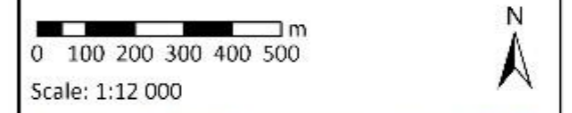




Wetland Sensitivity
ER32 & ER94
 1610 Tetra4 PR Extension BA

Legend

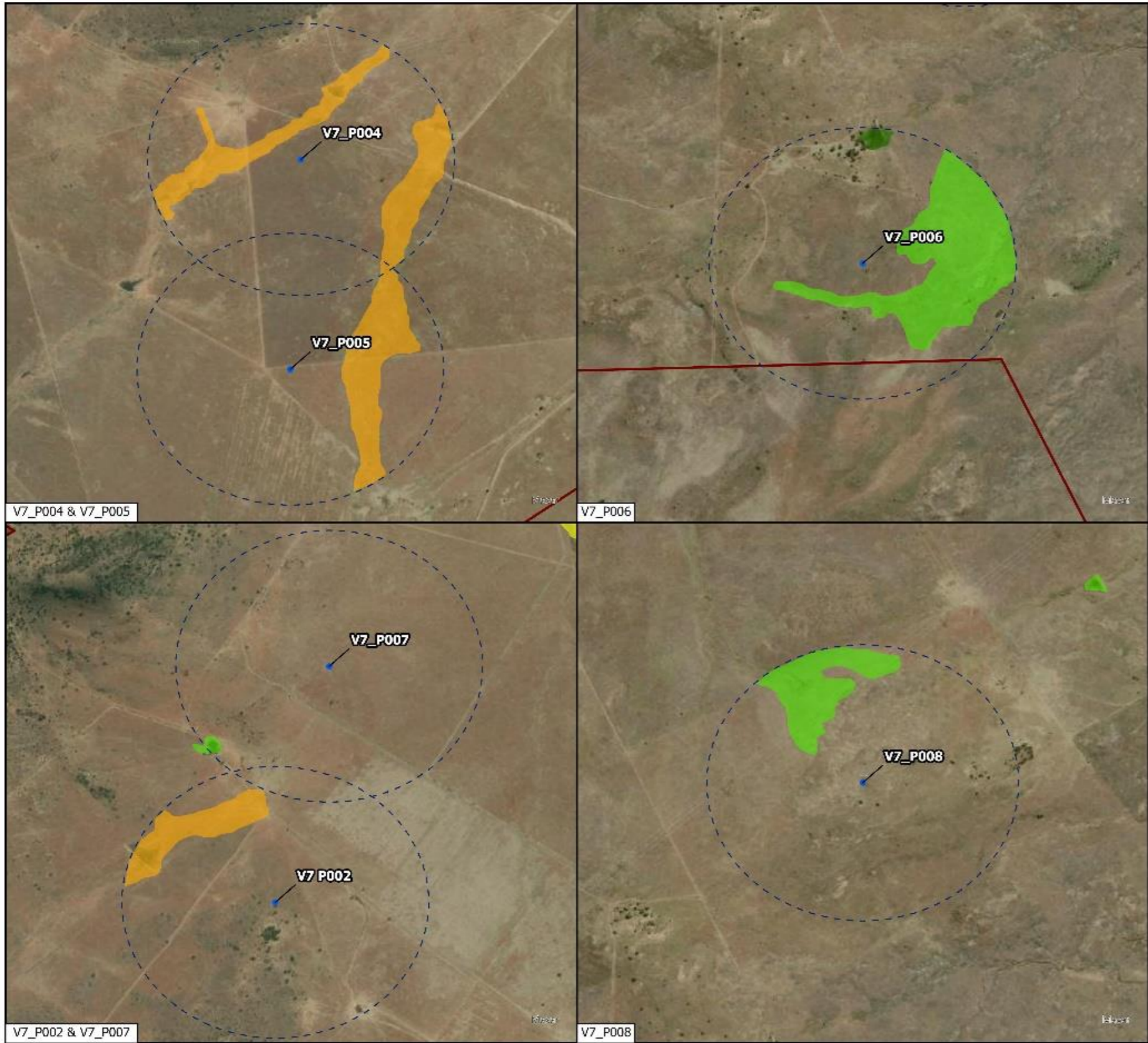
Exploration Right (ER94)	500m Buffer (Surveyed Area)
Exploration Right (ER32)	Wetland Sensitivity
Existing Production Right	Least Concern
Prospective Drill site (ER32)	Low
Prospective Drill site (ER94)	Medium
	High



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_WetlandSensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Wetland Sensitivity (ER94)
(V7_P002, V7P004 - V7_P008)
 1610 Tetra4 PR Extension BA

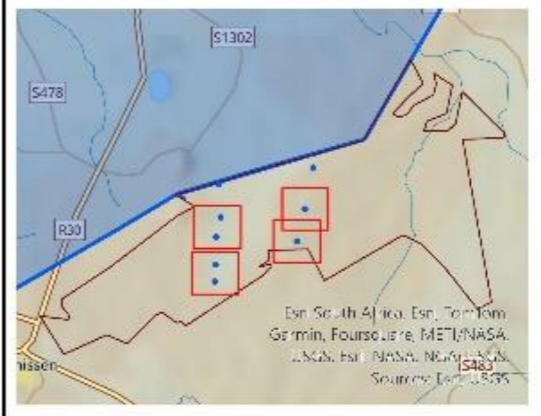
Legend

- Exploration Right (ER94)
- Existing Production Right
- Prospective Drill site (ER94)
- 500m Buffer (Surveyed Area)

Wetland Sensitivity

- Least Concern
- Low
- Medium
- High

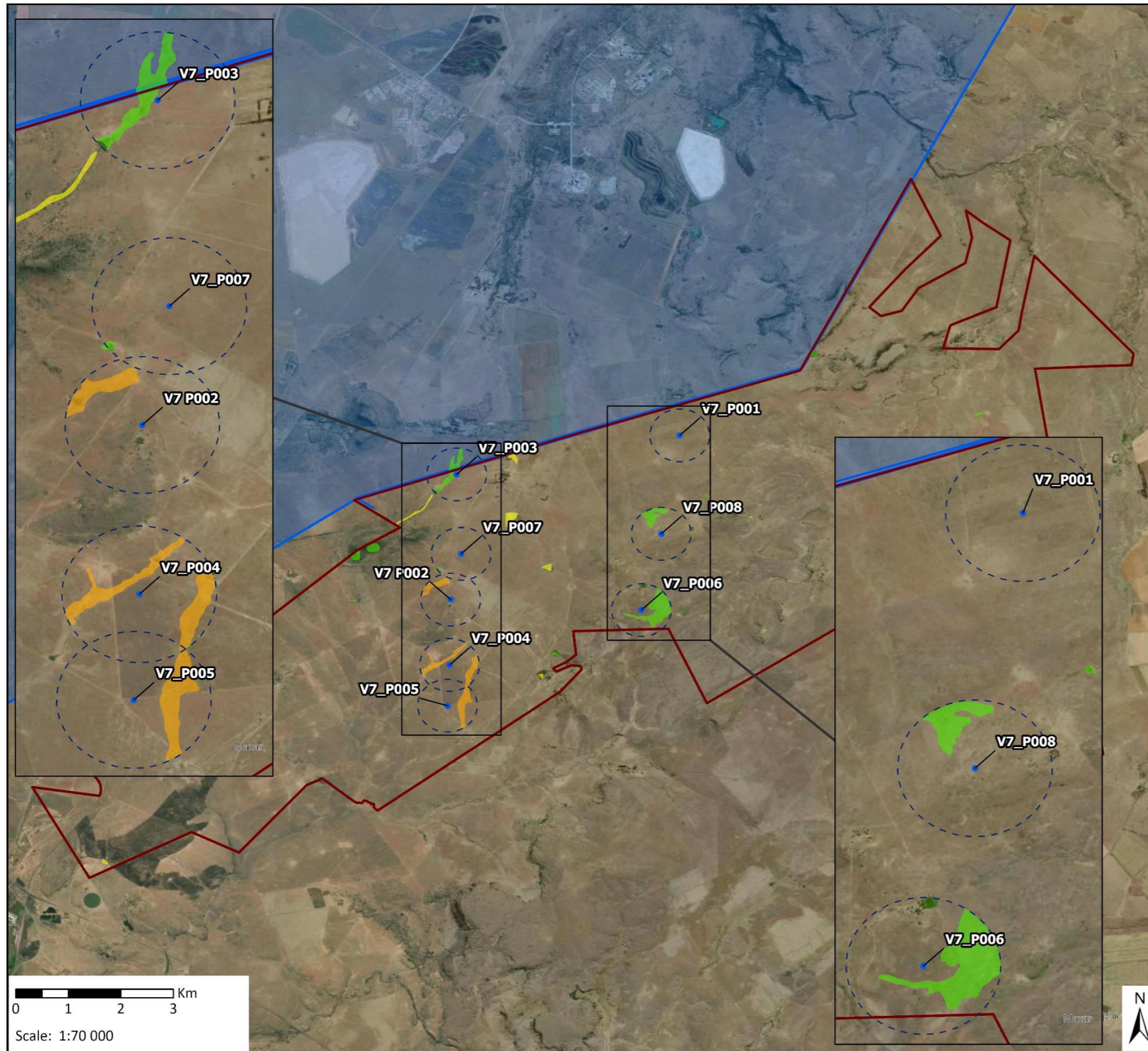
0 100 200 300 400 500 m
 Scale: 1:13 500



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_WetlandSensitivity

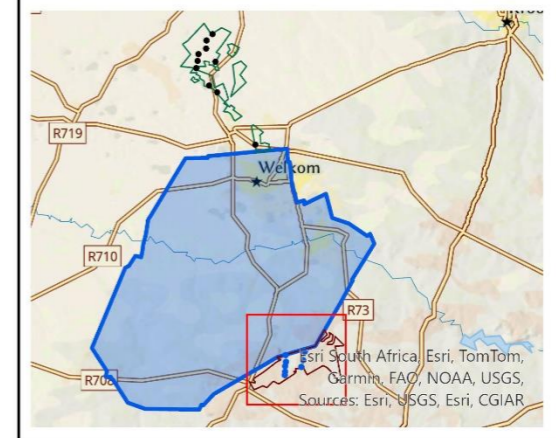
Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Wetland Sensitivity (ER94)
1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER94)
 - Exploration Right (ER94)
 - Existing Production Right
 - 500m Buffer (Surveyed Area)
- Wetland Sensitivity**
- Least Concern
 - Low
 - Medium
 - High



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_WetlandSensitivity





Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW






Wetland Sensitivity (ER32)

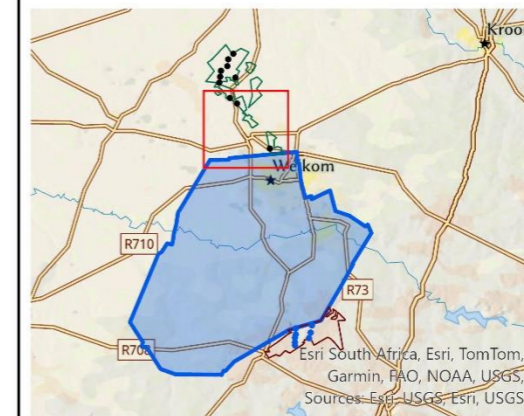
1610 Tetra4 PR Extension BA

Legend

-  Existing Production Right
-  Exploration Right (ER32)
-  Prospective Drill site (ER32)
-  500m Buffer (Surveyed Area)

Wetland Sensitivity

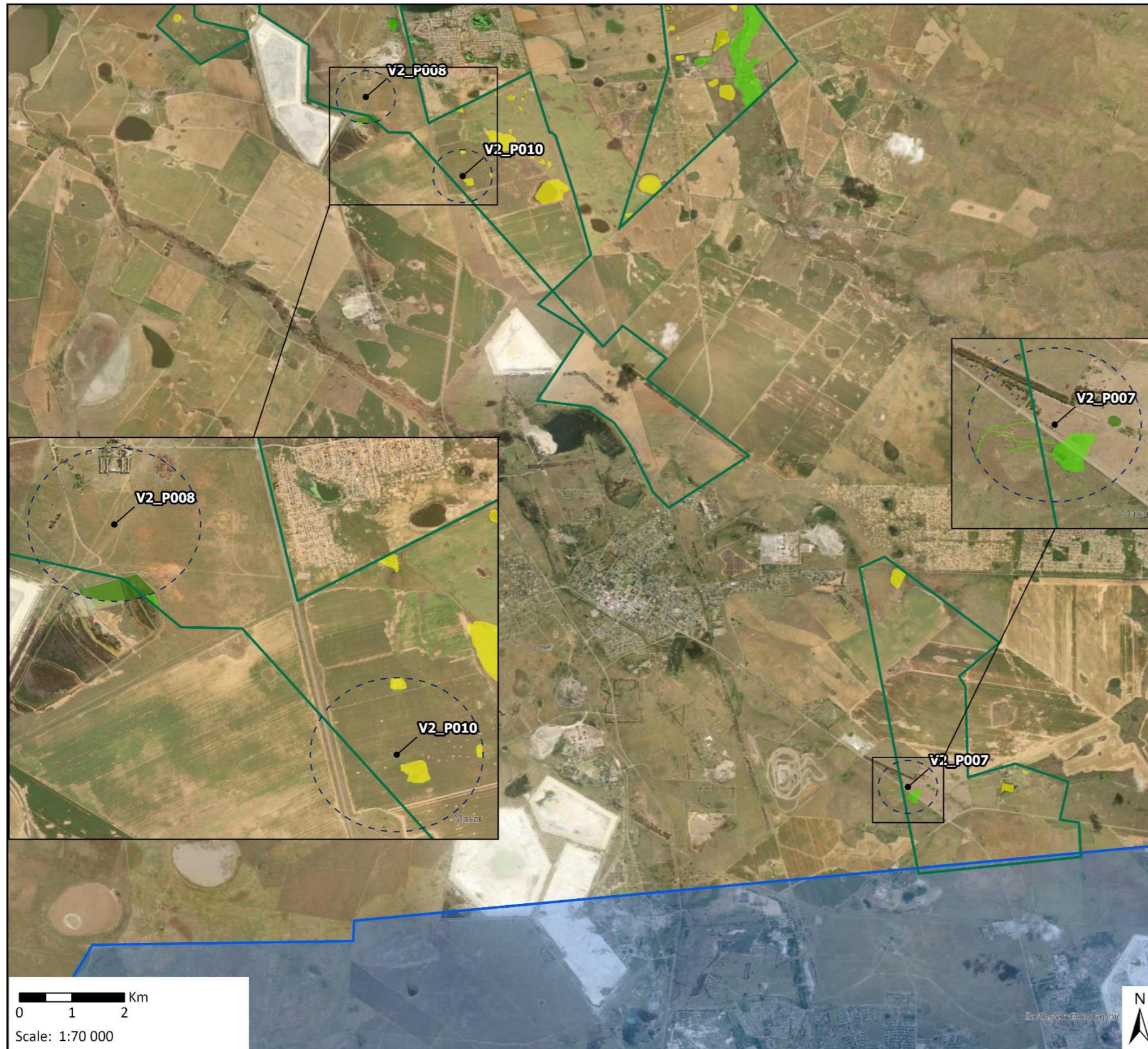
-  Least Concern
-  Low
-  Medium

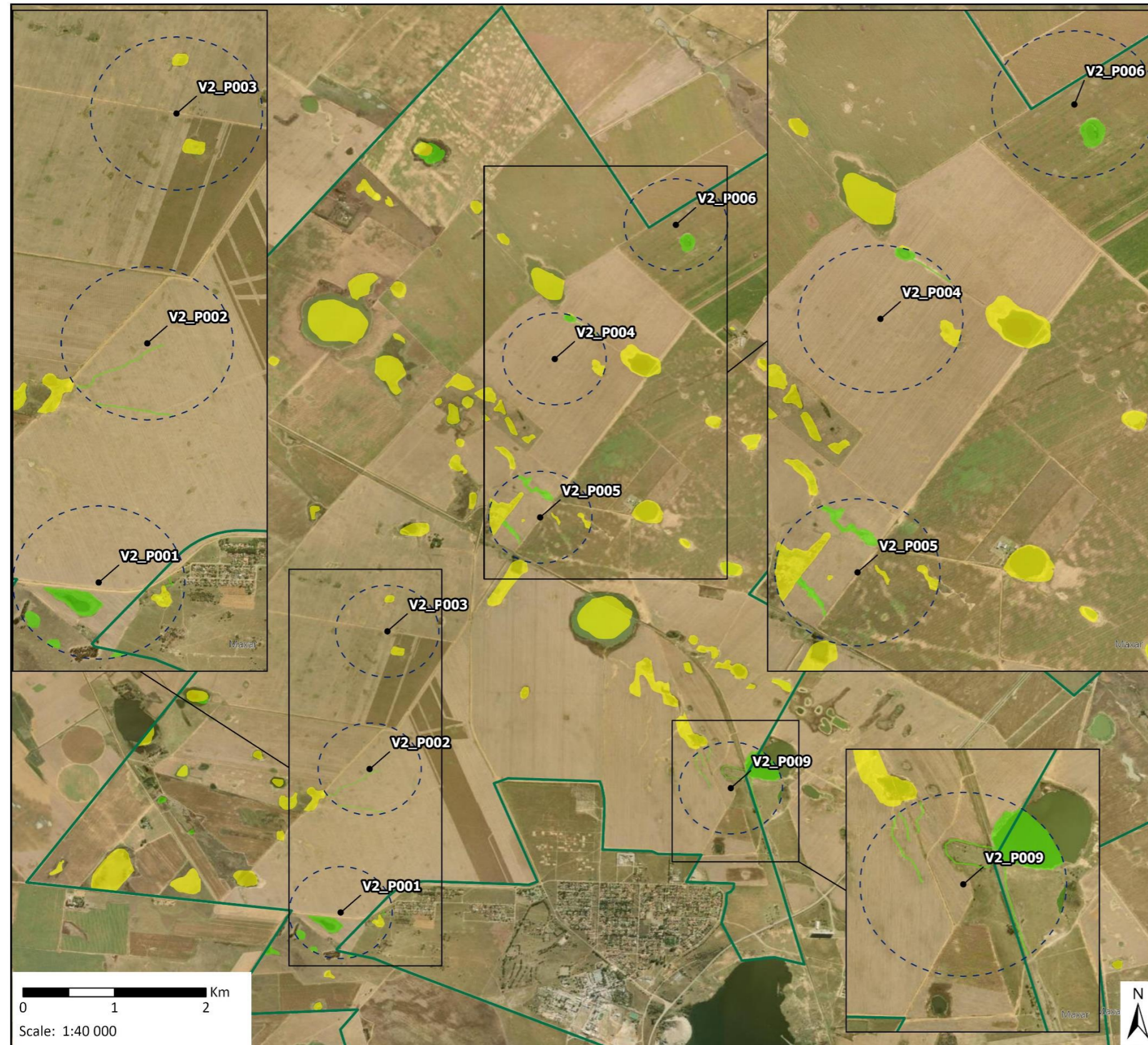


Data Sources:

CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_WetlandSensitivity

Date: 2024/07/26
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW








Wetland Sensitivity (ER32)

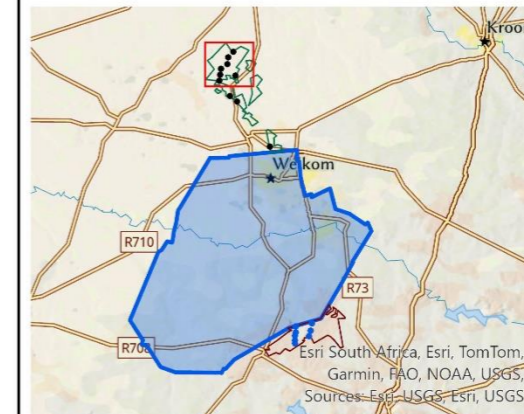
1610 Tetra4 PR Extension BA

Legend

-  Exploration Right (ER32)
-  Prospective Drill site (ER32)
-  500m Buffer (Surveyed Area)

Wetland Sensitivity

-  Least Concern
-  Low
-  Medium



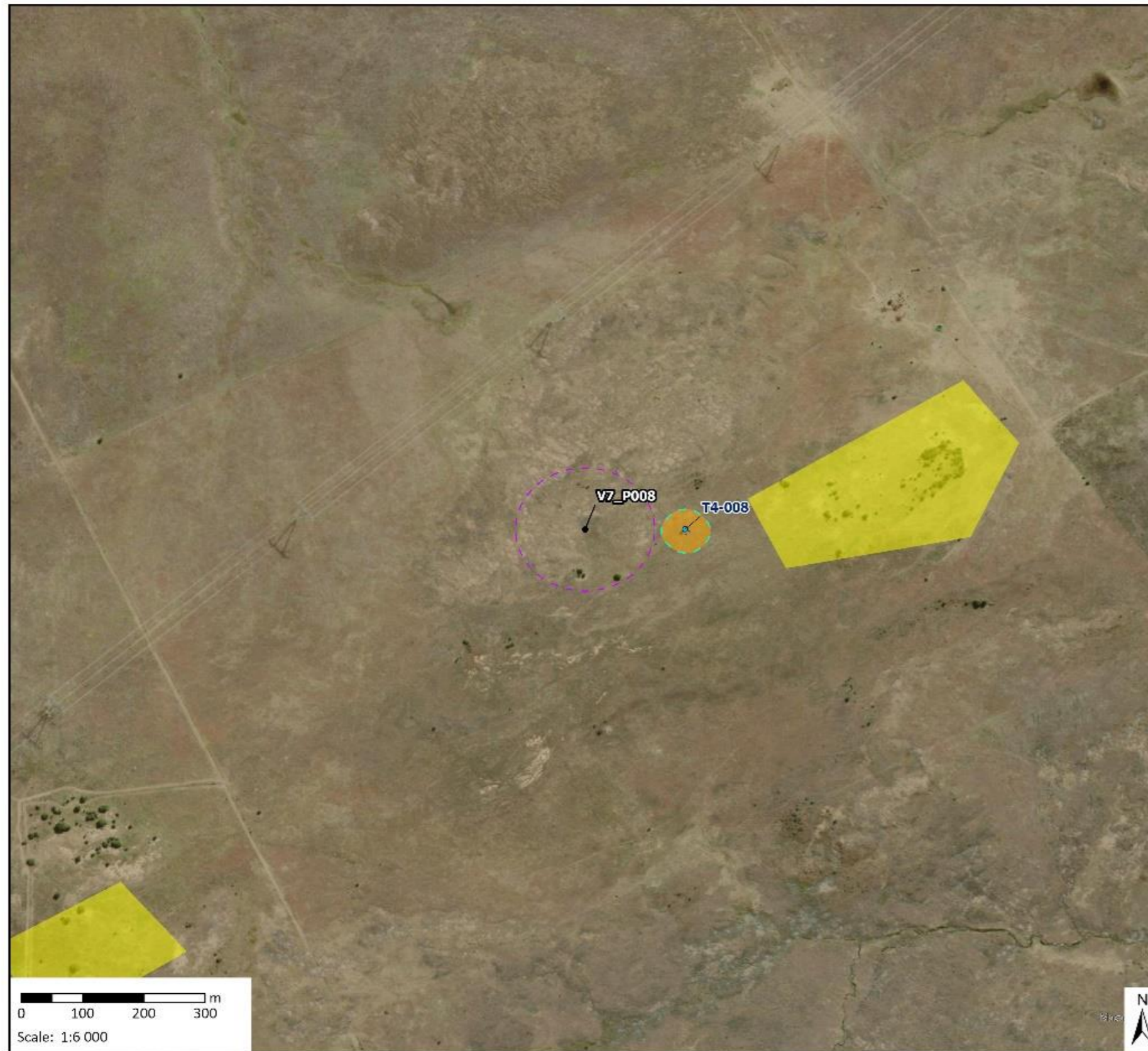
Data Sources:

CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_WetlandSensitivity

Date: 2024/07/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW



1.7 HERITAGE FEATURES



Heritage Sensitivity (V7_P008)

1610 Tetra4 PR Extension BA

Legend

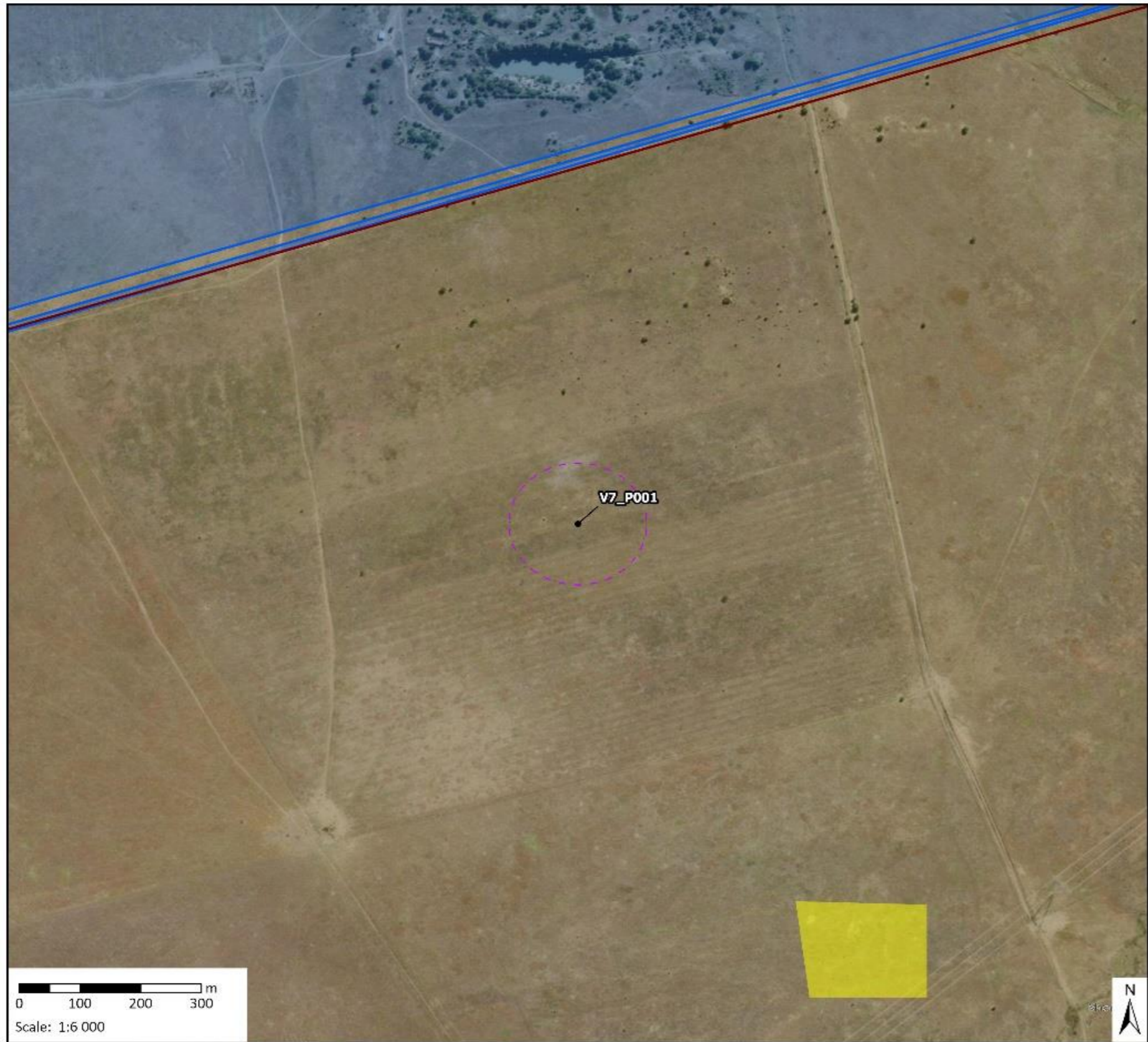
- Prospective Drill site (ER94)
- ▭ Exploration Right (ER94)
- Drill Sites Buffer (100m)
- Heritage Sensitivity
 - High
 - Medium
- - - Site Extent
- - - Site Extent Buffer (30m)
- Heritage Sites



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





**Heritage Sensitivity
(V7_P001)**
1610 Tetra4 PR Extension BA

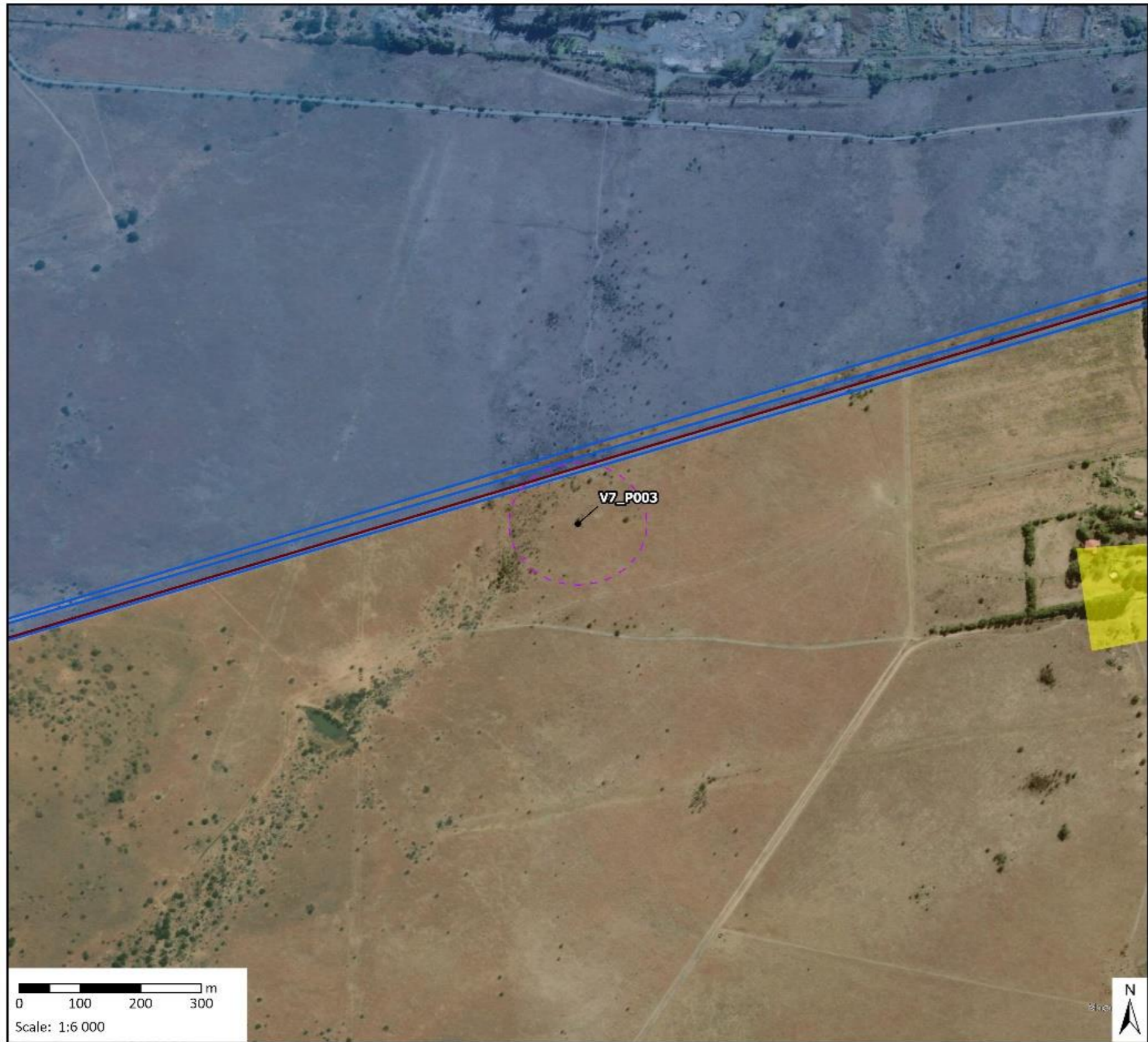
- Legend**
- Prospective Drill site (ER94)
 - Exploration Right (ER94)
 - Existing Production Right
 - Drill Sites Buffer (100m)
- Heritage Sensitivity**
- Medium







Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





**Heritage Sensitivity
(V7_P003)**
1610 Tetra4 PR Extension BA

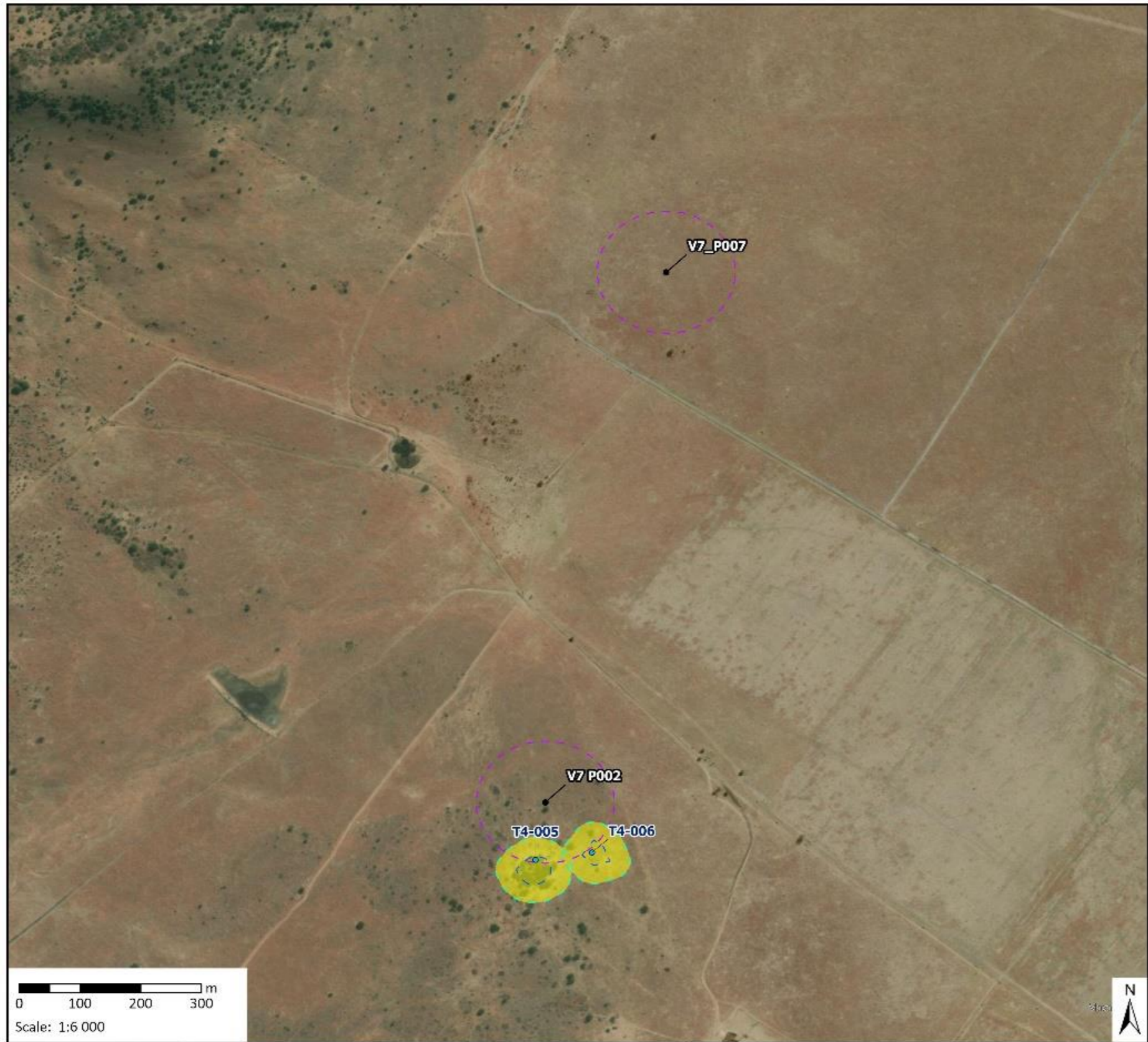
- Legend**
- Prospective Drill site (ER94)
 -  Exploration Right (ER94)
 -  Existing Production Right
 -  Drill Sites Buffer (100m)
- Heritage Sensitivity**
-  Medium



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Heritage Sensitivity
(V7_P007 & V7_P002)
 1610 Tetra4 PR Extension BA

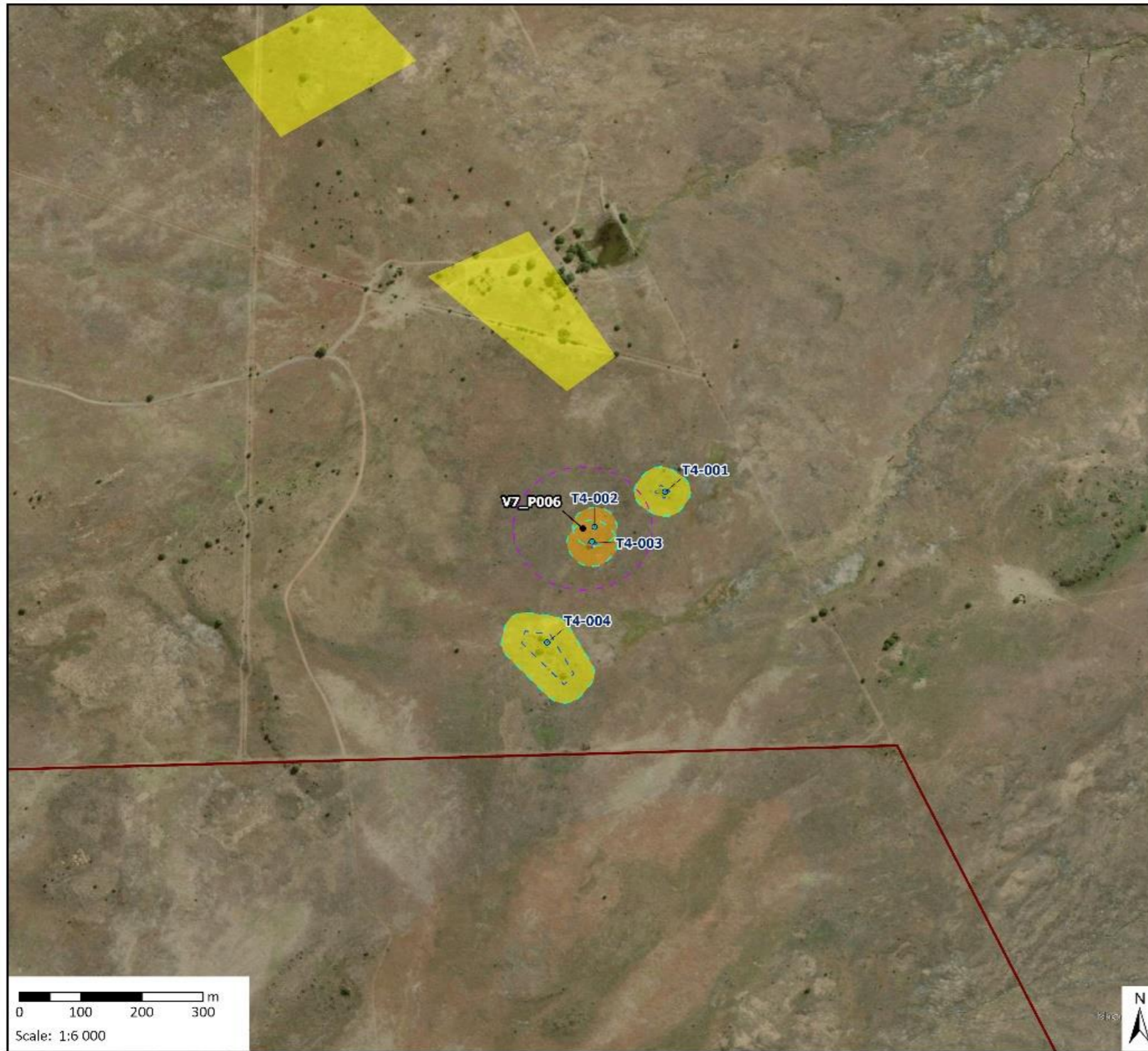
- Legend**
- Prospective Drill site (ER94)
 - Exploration Right (ER94)
 - Drill Sites Buffer (100m)
 - Heritage Sensitivity
 - Medium
 - Site Extent
 - Site Extent Buffer (30m)
 - Heritage Sites



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Heritage Sensitivity (V7_P006)

1610 Tetra4 PR Extension BA

Legend

- Prospective Drill site (ER94)
- Exploration Right (ER94)
- Drill Sites Buffer (100m)
- Heritage Sensitivity
 - High
 - Medium
- Site Extent
- Site Extent Buffer (30m)
- Heritage Sites

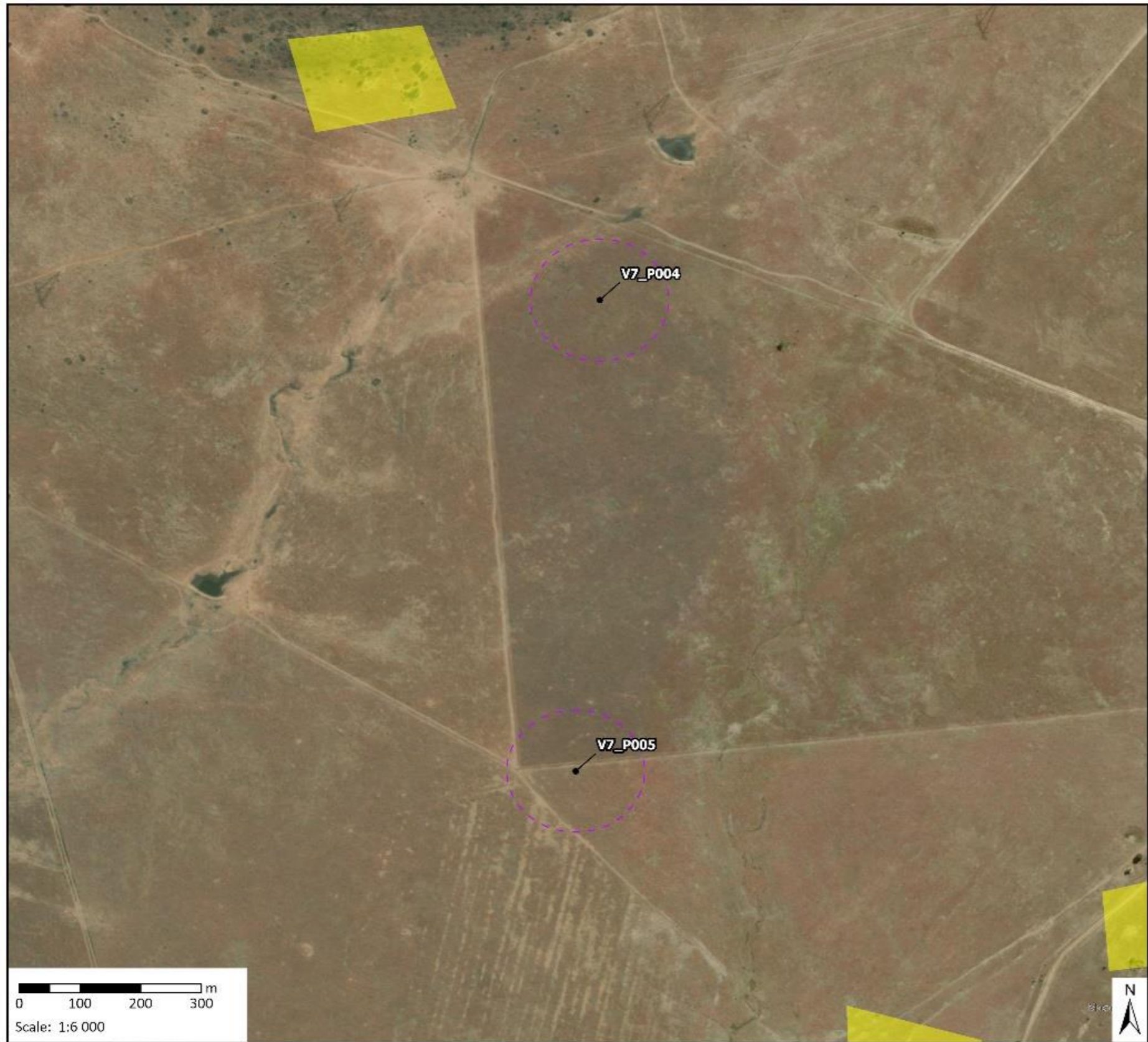


Data Sources:

CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Heritage Sensitivity
(V7_P004 & V7_P005)
 1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER94)
 - ⬢ Exploration Right (ER94)
 - Drill Sites Buffer (100m)
 - Heritage Sensitivity
 - Medium



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

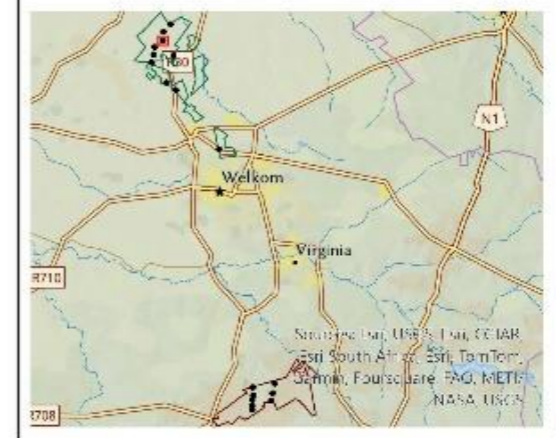
Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





**Heritage Sensitivity
(V2_P005)**
1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER32)
 - ✚ Exploration Right (ER32)
 - Drill Sites Buffer (100m)
- Heritage Sensitivity**
- Medium



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

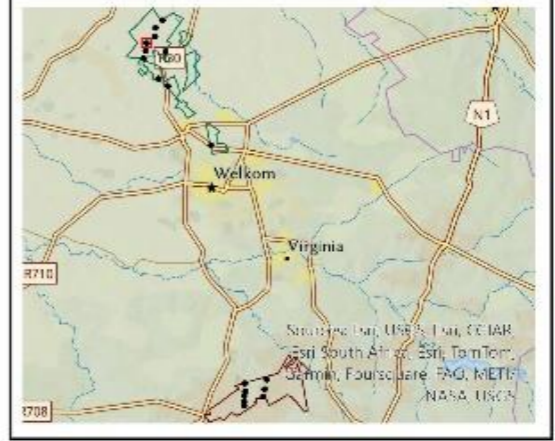
Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





**Heritage Sensitivity
(V2_P003)**
1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER32)
 - Exploration Right (ER32)
 - Drill Sites Buffer (100m)



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

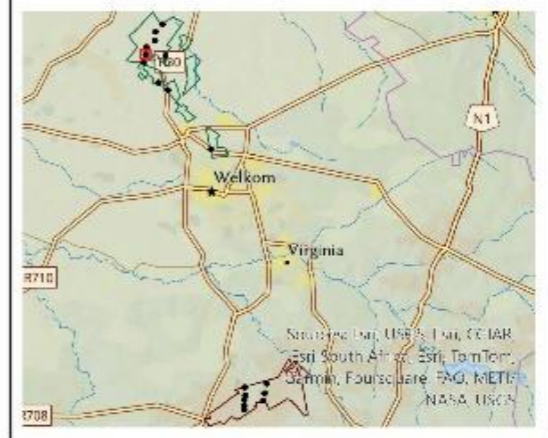
Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





**Heritage Sensitivity
(V2_P002)**
1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER32)
 - ✚ Exploration Right (ER32)
 - Drill Sites Buffer (100m)



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_HeritageSensitivity

Date: 2024/07/24
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW





**Heritage Sensitivity
(V2_P009)**
1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER32)
 - Exploration Right (ER32)
 - Drill Sites Buffer (100m)
 - Heritage Sensitivity
 - Medium



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_HeritageSensitivity

Date: 2024/07/24
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW





**Heritage Sensitivity
(V2_P001)**
1610 Tetra4 PR Extension BA

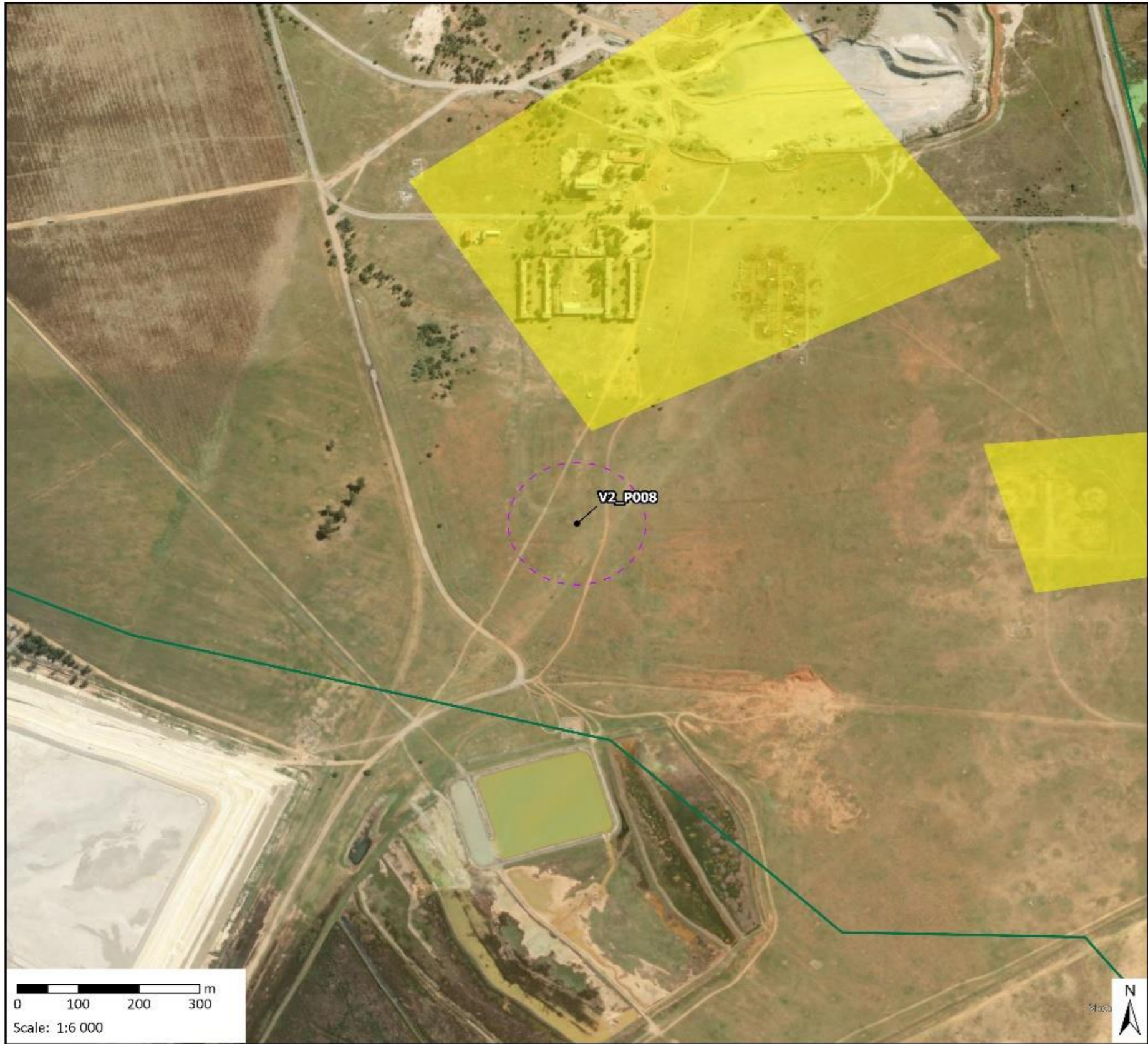
- Legend**
- Prospective Drill site (ER32)
 - Exploration Right (ER32)
 - Drill Sites Buffer (100m)
 - Heritage Sensitivity:
 - Medium



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





**Heritage Sensitivity
(V2_P008)**
1610 Tetra4 PR Extension BA

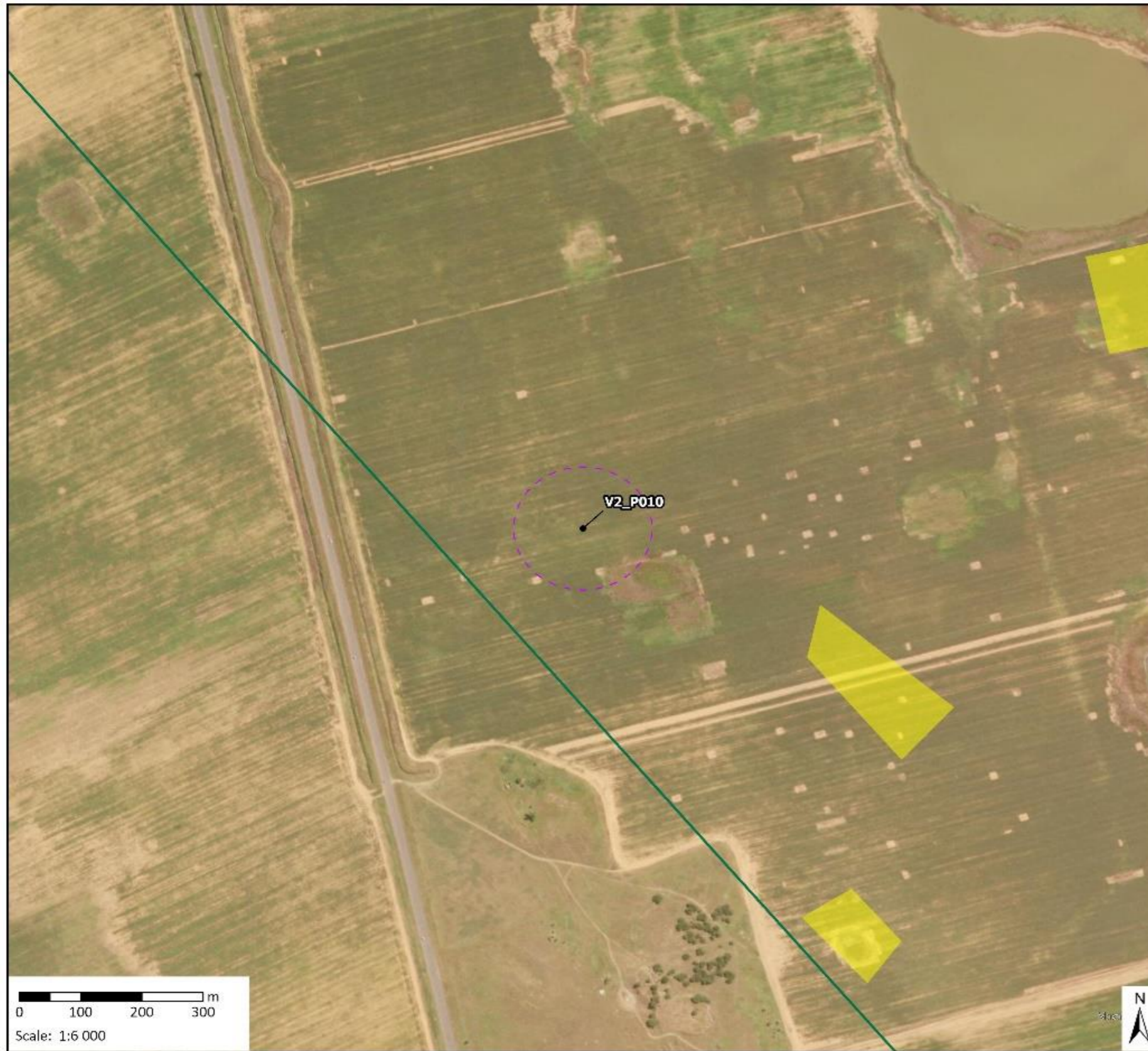
- Legend**
- Prospective Drill site (ER32)
 - ⊞ Exploration Right (ER32)
 - Drill Sites Buffer (100m)
 - Heritage Sensitivity
 - Medium



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_HeritageSensitivity

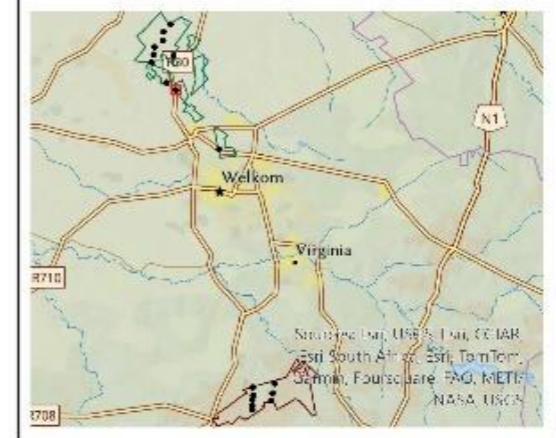
Date: 2024/07/24
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW





**Heritage Sensitivity
(V2_P010)**
1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER32)
 - Exploration Right (ER32)
 - Drill Sites Buffer (100m)
 - Heritage Sensitivity:
 - Medium



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Heritage Sensitivity (V2_P007)

1610 Tetra4 PR Extension BA

Legend

- Prospective Drill site (ER32)
- ✚ Exploration Right (ER32)
- Drill Sites Buffer (100m)
- Heritage Sensitivity:
 - Medium



Data Sources:

CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Heritage Sensitivity (V2_P004)

1610 Tetra4 PR Extension BA

Legend

- Prospective Drill site (ER32)
- ✚ Exploration Right (ER32)
- Drill Sites Buffer (100m)

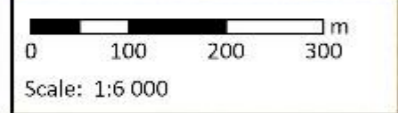


Data Sources:

CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

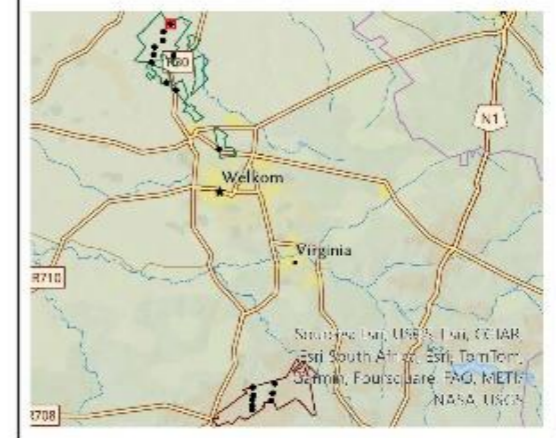
Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





**Heritage Sensitivity
(V2_P006)**
1610 Tetra4 PR Extension BA

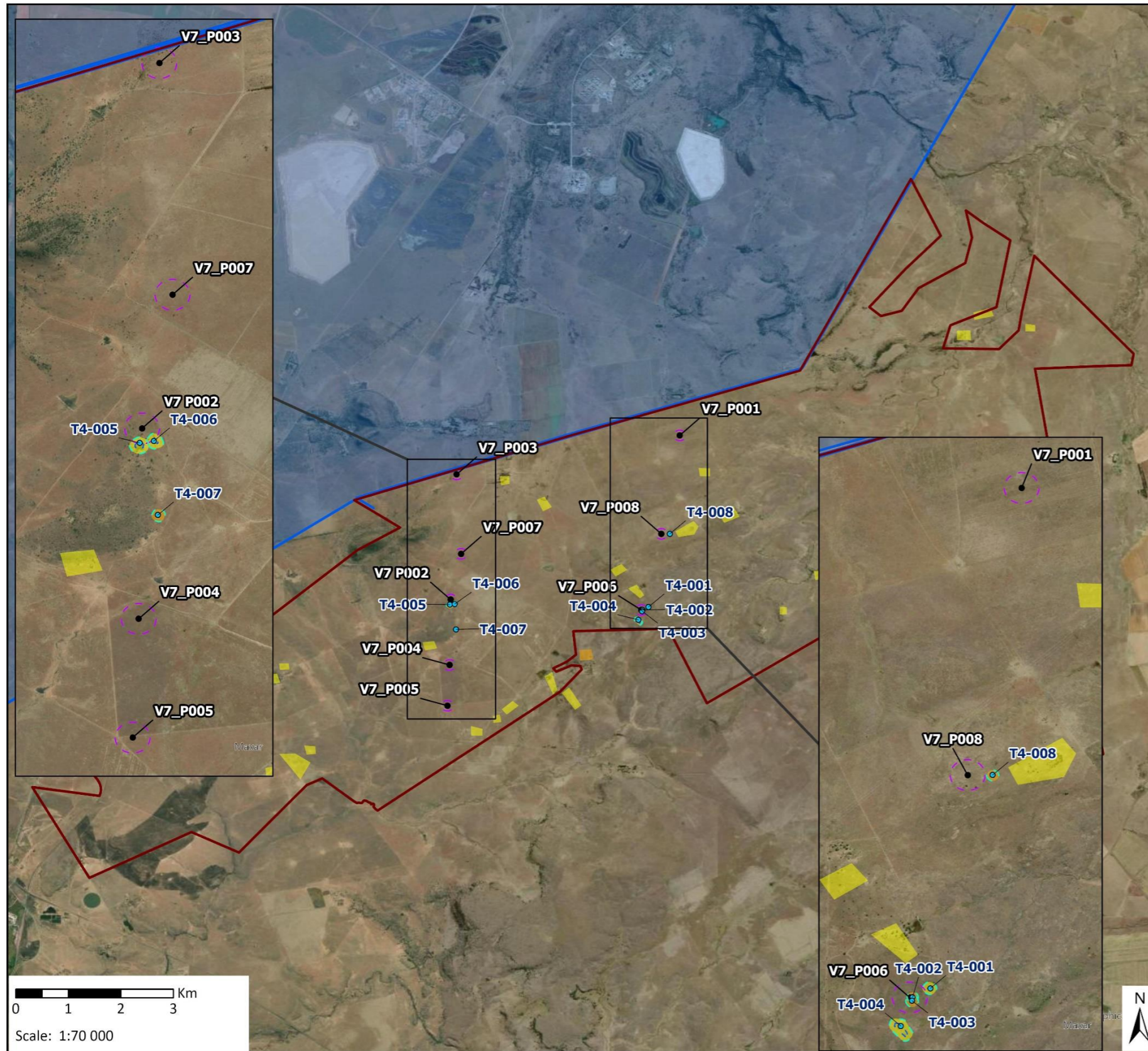
- Legend**
- Prospective Drill site (ER32)
 - Exploration Right (ER32)
 - Drill Sites Buffer (100m)



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

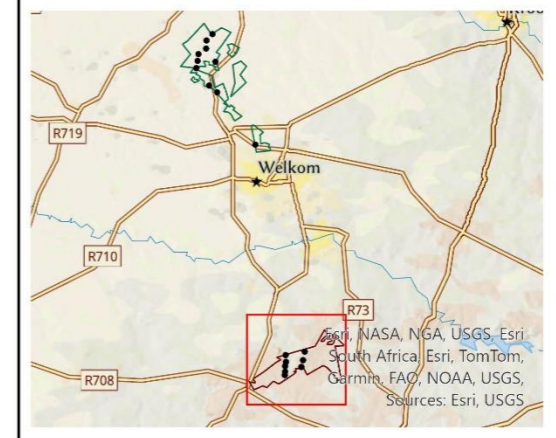
Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW





Heritage Sensitivity (ER94)
1610 Tetra4 PR Extension BA

- Legend**
- Prospective Drill site (ER94)
 - Exploration Right (ER94)
 - Existing Production Right
 - Drill Sites Buffer (100m)
 - Site Extent
 - Site Extent Buffer (30m)
 - Heritage Sites
- Heritage Sensitivity**
- High
 - Medium



Data Sources:
CSG; ESRI; SANBI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_HeritageSensitivity

Date: 2024/07/24
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW



Heritage Sensitivity (ER32)

1610 Tetra4 PR Extension BA

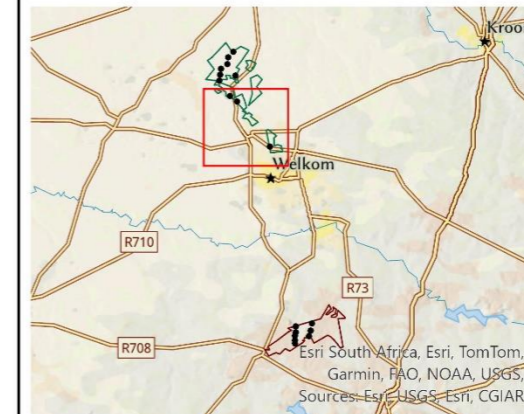
Legend

- Existing Production Right
- Exploration Right (ER32)
- Prospective Drill site (ER32)

Drill Sites Buffer (100m)

Heritage Sensitivity

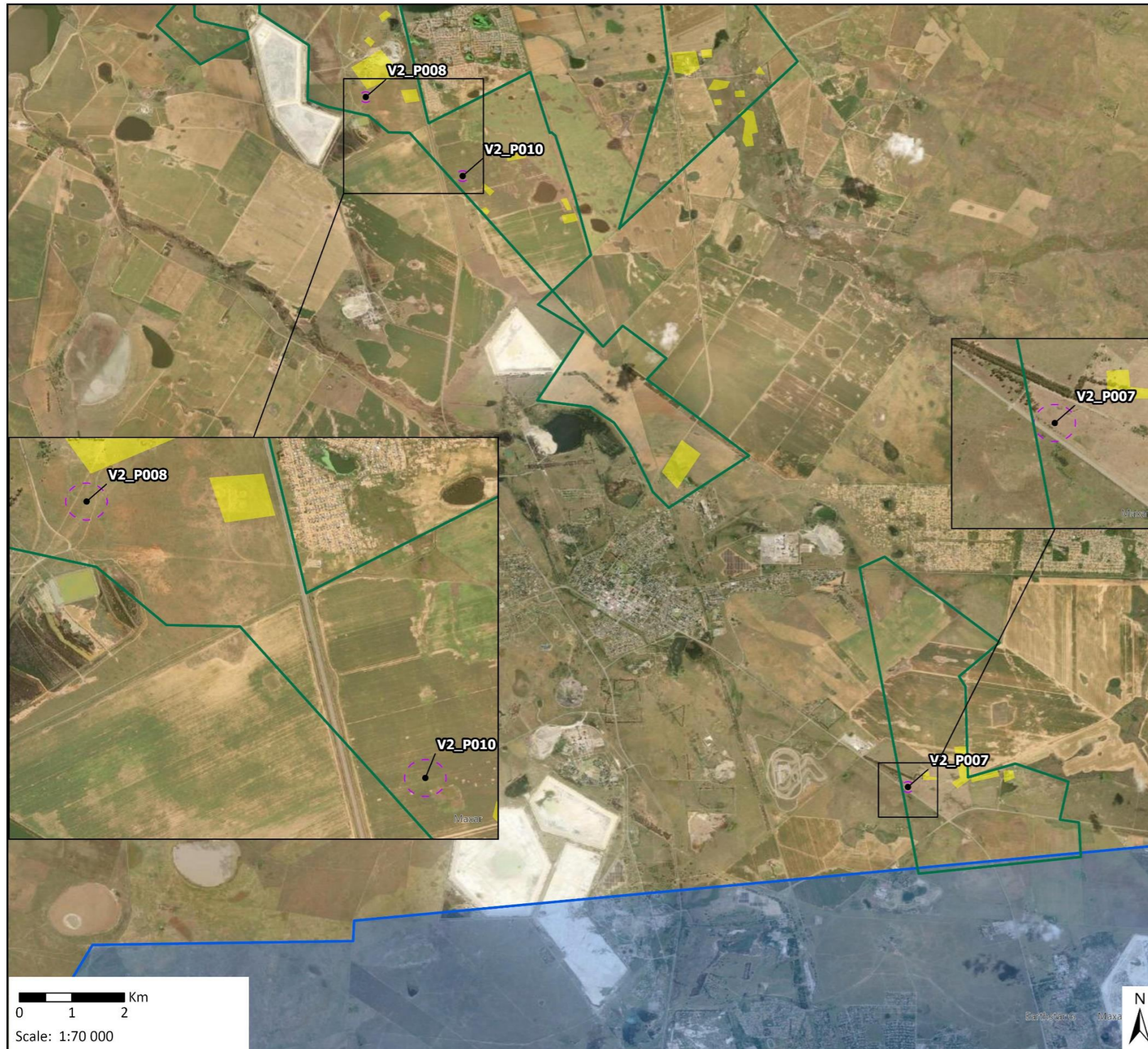
Medium

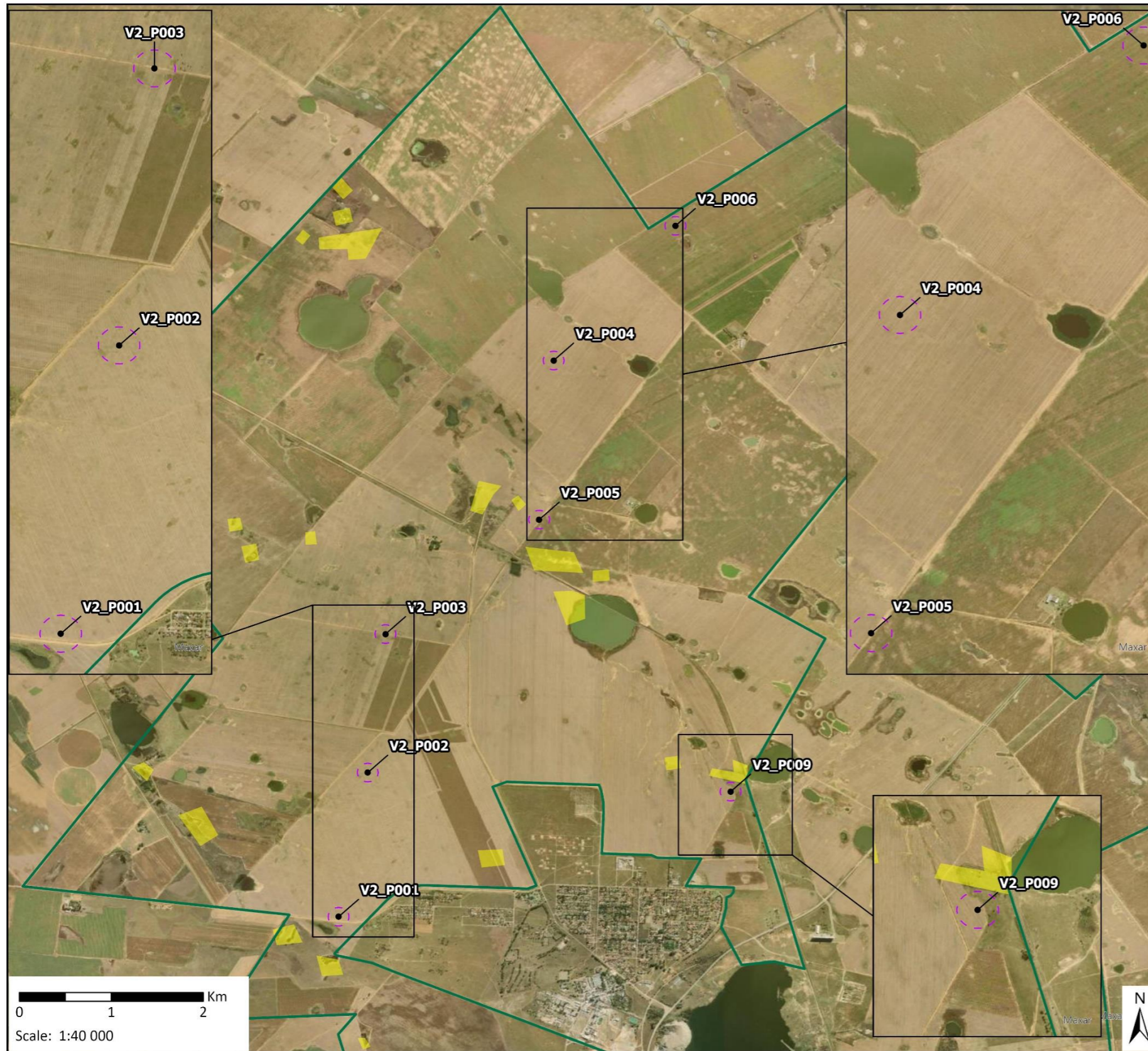


Data Sources:





CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_HeritageSensitivity

Date: 2024/07/24
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW





Heritage Sensitivity (ER32)
1610 Tetra4 PR Extension BA

- Legend**
-  Exploration Right (ER32)
 -  Prospective Drill site (ER32)
 -  Drill Sites Buffer (100m)
- Heritage Sensitivity**
-  Medium

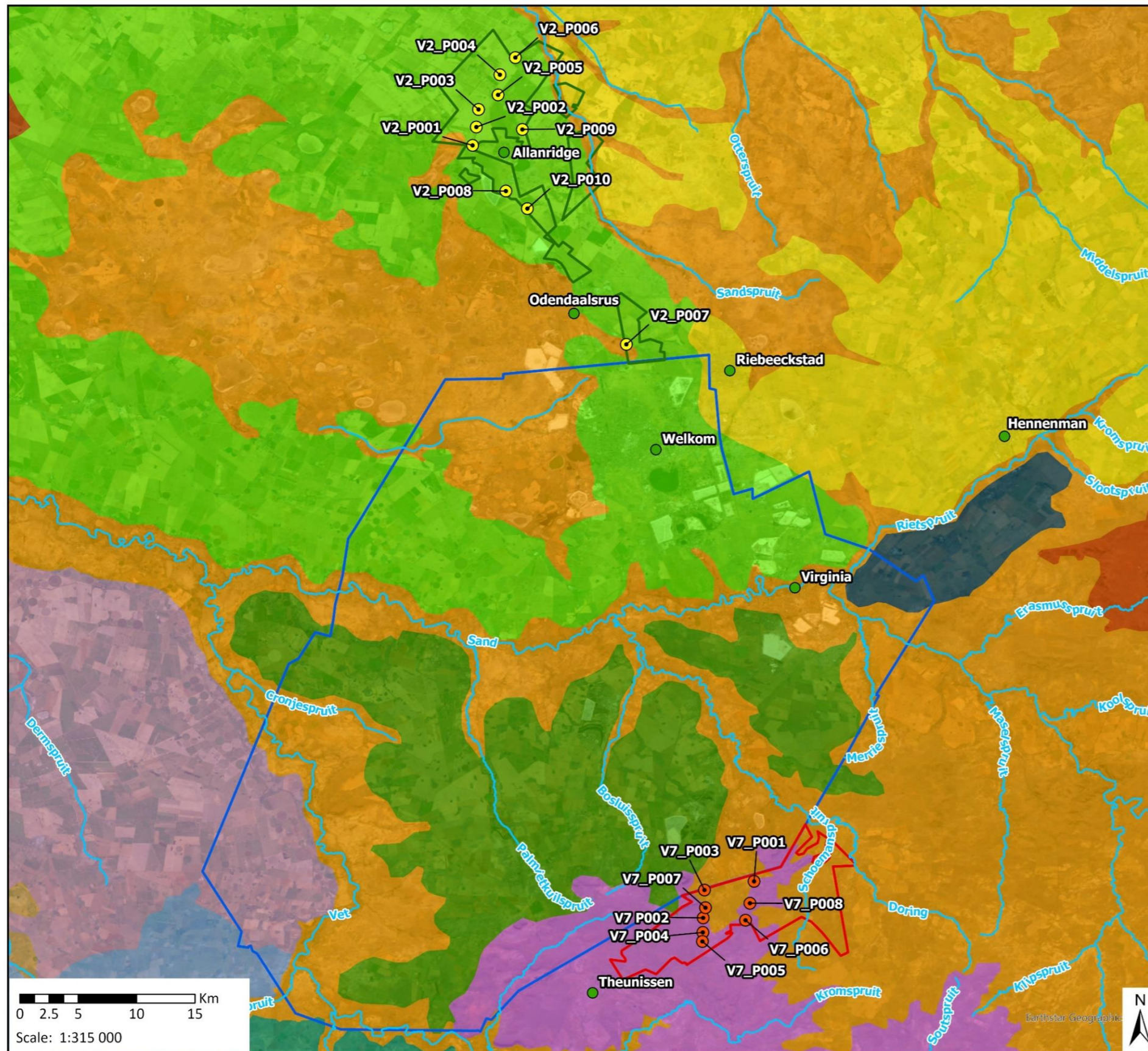


Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_HeritageSensitivity

Date: 2024/07/24
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW



1.8 SIMPLIFIED SOILS



Simplified Soils Map

1610 Tetra4 PR Extension BA

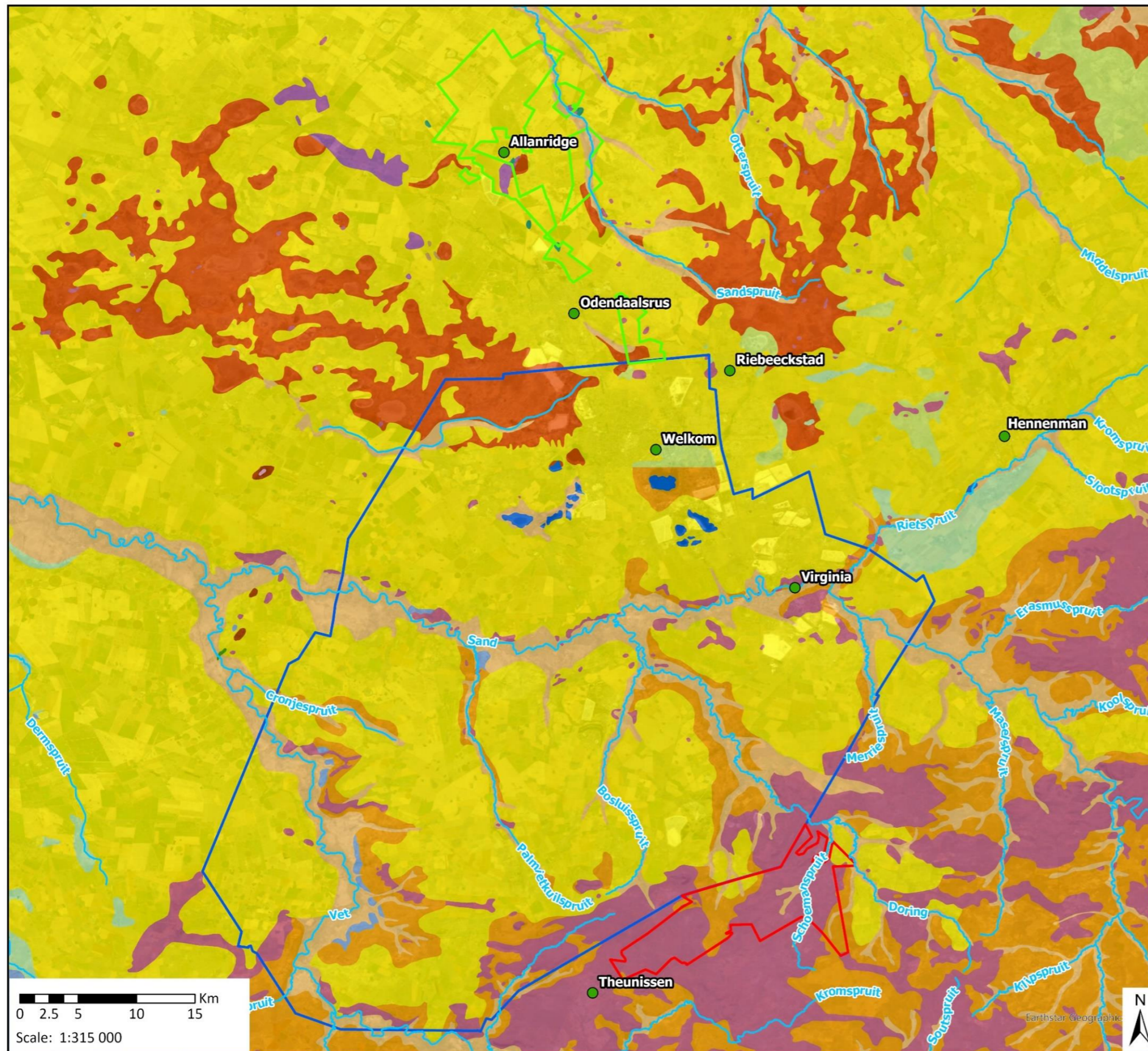
Legend

Existing Production Right	Lithic Leptosols (LPq) Black and red, strongly structured clayey soils with high base status (association of Vertisols, Phaeozems, Kastanozems and Nitisols. In addition one or more Leptosols, Calcisols and Cambisols may be present)
Exploration Right (ER32)	Ferric Luvisols (LVf) Red, massive or weakly structured soils with high base status (association of well drained Luvisols, Cambisols, Luvisols)
Exploration Right (ER94)	Haplic Luvisols (LVh) Red, massive or weakly structured soils with high base status (association of well drained Luvisols, Cambisols, Luvisols)
Prospective Drill site (ER32)	Calcic Luvisols (LVk) Soils with a marked clay accumulation (association of Luvisols, Planosols and Solonetz. In addition one or more of Plinthosols, Vertisols and Cambisols may be present)
Prospective Drill site (ER94)	Chromic Luvisols (LVx) Soils with a marked clay accumulation (association of Luvisols, Planosols and Solonetz. In addition one or more of Plinthosols, Vertisols and Cambisols may be present)
Rivers	Ferric Lixisols (LVf) Red, yellow and greyish soils with high base status (association of Lixisols, Cambisols, Luvisols and Plinthosols. In addition, other soils with plinthic and gleyic properties may also be present)
Places	Haplic Lixisols (LVh) Red, massive or weakly structured soils with high base status (association of well drained Lixisols, Cambisols, Luvisols)
Soils	
Haplic Arenosols (ARh) Red, yellow and greyish excessively drained sandy soils (Arenosols)	
Ferralic Arenosols (ARo) Red, yellow and greyish excessively drained sandy soils (Arenosols)	
Petric Calcisols (CLp) Soils with minimal development, usually shallow on hard or weathering rock, with or without intermittent diverse soils, (association of Leptosols, Regosols, Calcisols and Durisols. In addition one or more of Cambisols, Luvisols)	
Eutric Cambisols (CMe) Red, yellow and greyish soils with high base status (association of Lixisols, Cambisols, Luvisols and Plinthosols. In addition, other soils with plinthic and gleyic properties may also be present)	
Eutric Leptosols (LPe) Black and red, strongly structured clayey soils with high base status (association of Vertisols, Phaeozems, Kastanozems and Nitisols. In addition one or more Leptosols, Calcisols and Cambisols may be present)	

Data Sources:
 CSG; ESRI; SANBI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_Soils

Date: 2024/06/26
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW

1.9 SIMPLIFIED GEOLOGY



Simplified Geology Map

1610 Tetra4 PR Extension BA

Legend	
	Existing Production Right
	Exploration Right (ER32)
	Exploration Right (ER94)
	Rivers
	Places
Geological Subgroup	
	Aeolian sand
	Alluvium
	Calcrete and surface limestone
	Granite
	Water
	Adelaide - Mudrock, subordinate sandstone
	Allanridge - Andesitic lavas, tuffs
	Bothaville - Conglomerate, "grit", quartzite, subgreywacke, shale lenses
	Kameeldooms - Shale, conglomerate, greywacke
	Karoo Dolerite - Network of dolerite sills, sheets and dykes, mainly intrusive into the Karoo Supergroup
	Makwassie - Acid lavas (mainly quartz porphyry), ash flows, subordinate sediments
	Normandien - Green-grey and (at the top) red mudstone and siltstone, grey shale and rhythmic, sandstone
	Rietgat - Andesite to dacitic lava, minor conglomerate, greywacke and shale
	Tierberg - Grey shale with interbedded siltstones in the upper part
	Volkrust - Mudrock

Data Sources:
 CSG; ESRI; SANBI; Council for Geoscience
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1610_Geology

Date: 2024/06/25
 EIMS Ref: 1610
 Compiled: JW
 Reviewed: SM
 Approved: LW



