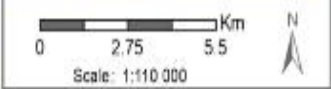


Sketch Plan
 Black Mountain Mining
 Groot Kolk Prospecting Right Application

- Legend**
- Boundary Points
 - S - Groot Kolk Application
 - Farm Portions

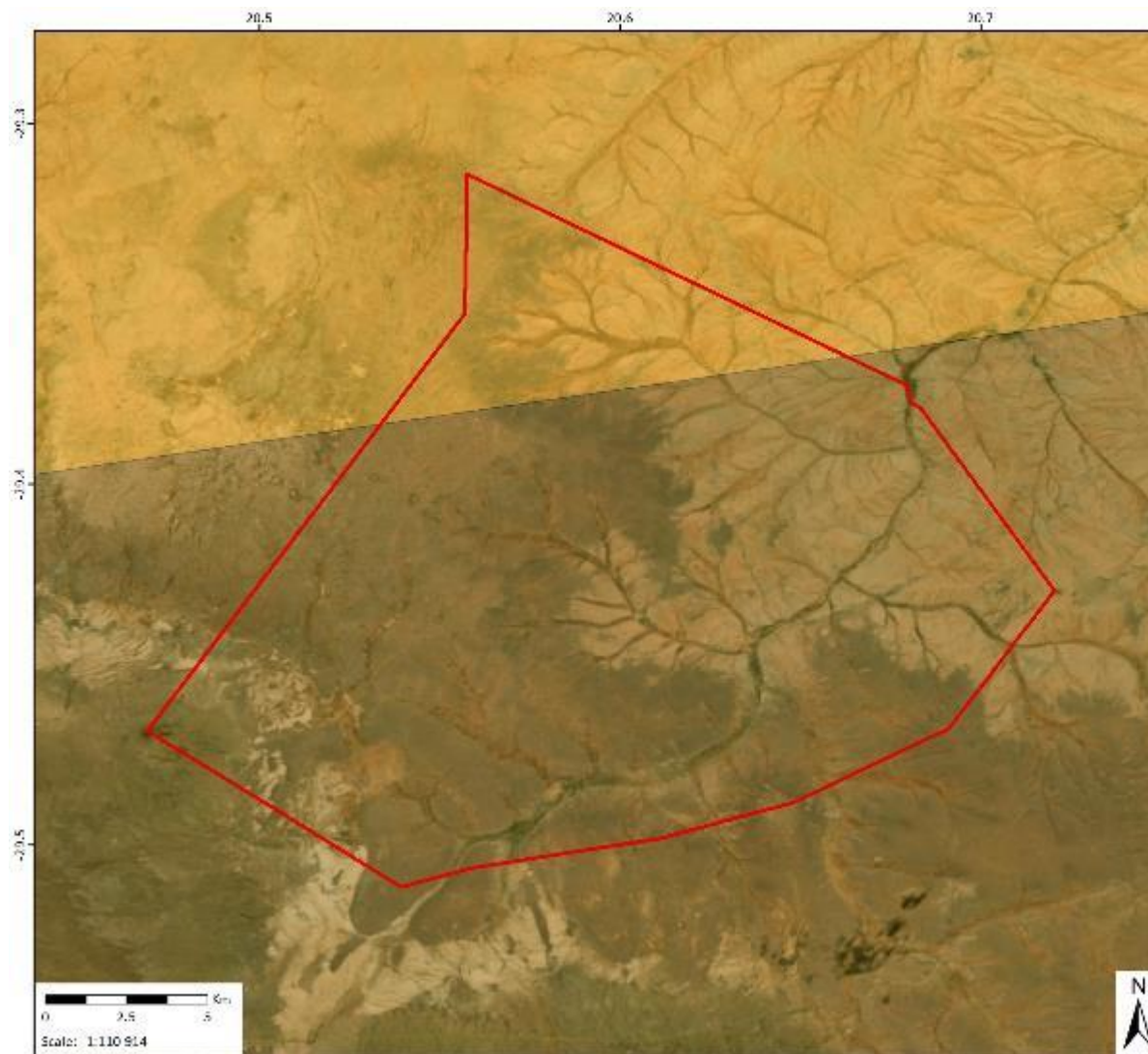


Data Sources:
 ESRI, BMM
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1304_Sketch Plan Area5_20190613_GP

Date: 2019/06/14
 EIMS Ref: 1304
 Compiled: GPK
 Reviewed: GPK
 Approved: LW



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Groot Kolk Prospecting Right Application Important Areas
 1:100 BMM Prospecting Right Application

Legend

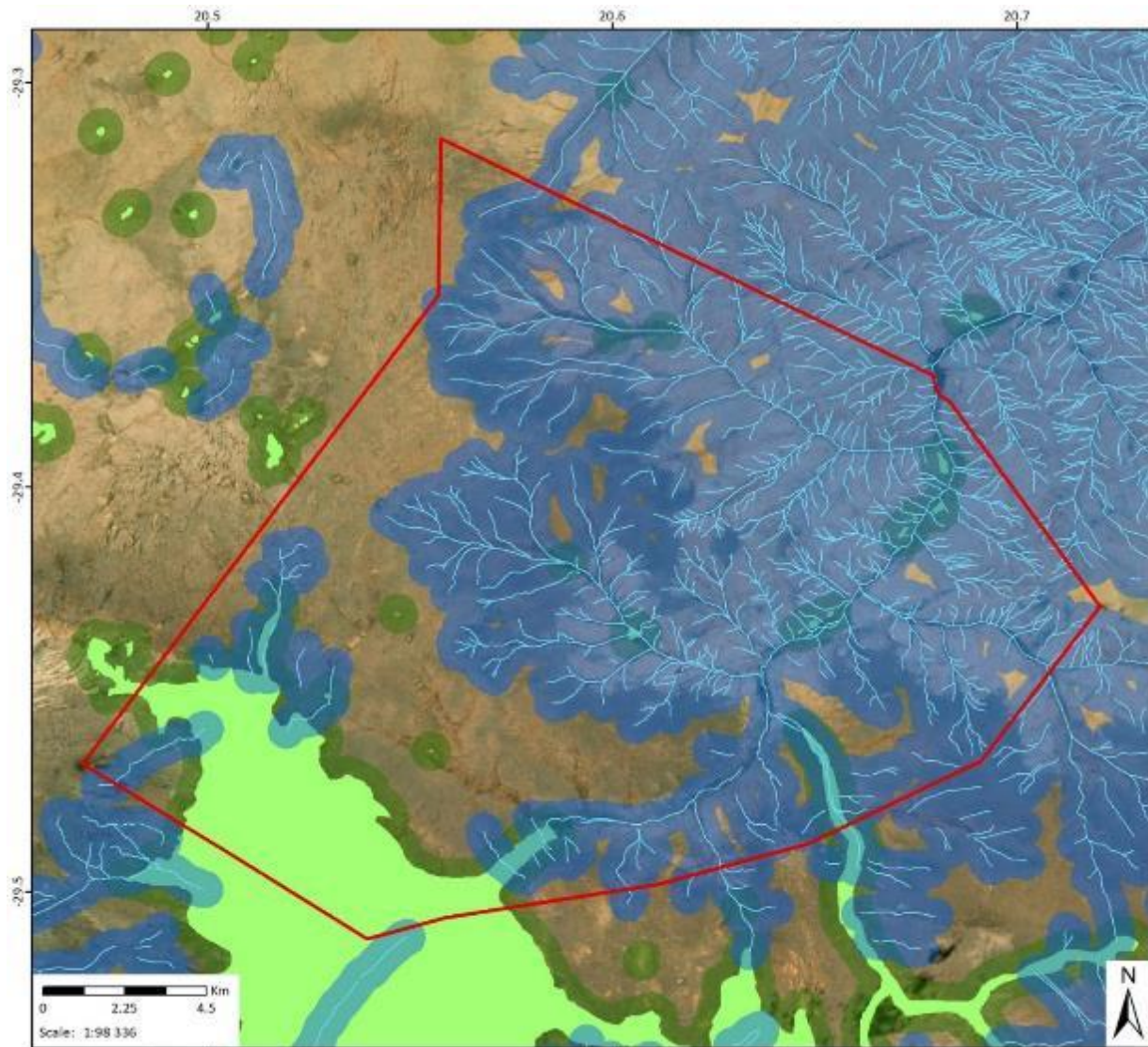
-  Groot Kolk Prospecting Application Area
-  Square Kilometre Array radio telescope (SKA) Areas
-  Karoo Central Astronomy Advantage Area 1
-  Karoo Central Astronomy Advantage Area 2
-  Karoo Central Astronomy Advantage Area 3



Data Sources:
 OSS: LSH / NI LPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: Groot Kolk Important Areas 190718 PH

Date: 2019/07/18
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Groot Kolk Prospecting Right Application Surface Water Features
 1304 BMM Prospecting Right Application

- Legend**
-  Groot Kolk Prospecting Application Area
 -  Rivers/ Streams
 -  NFEPA Wetlands
 -  Rivers/ Streams 500m Buffer
 -  NFEPA Wetlands 500m Buffer

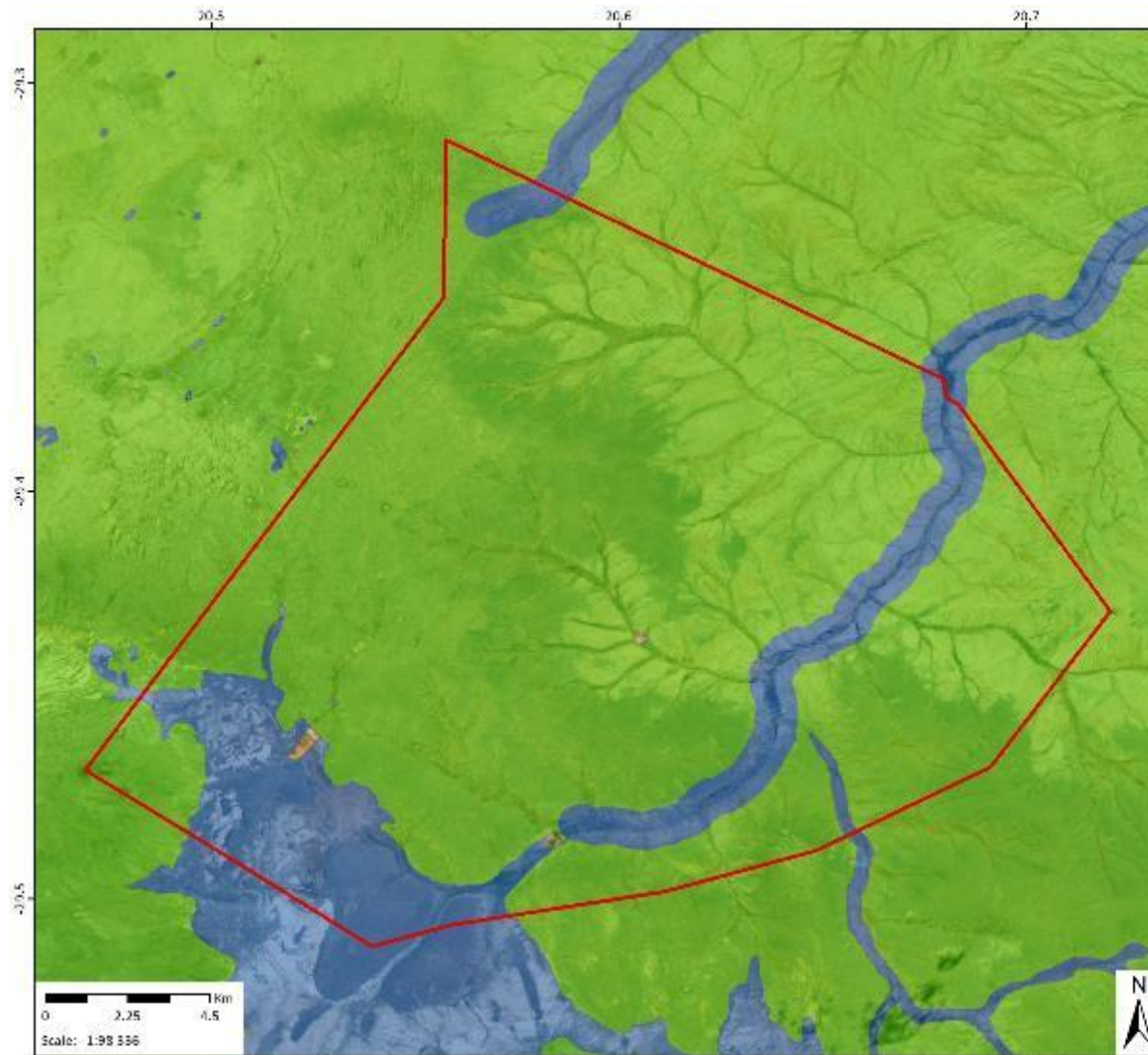


Data Sources:
 CSG; ESRI; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984

Ref: Groot Kolk SW Features_190718_PH

Date: 2019/07/18
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Groot Kolk Prospecting Right Application Northern Cape C-Plan
 1304 UMM Prospecting Right Application

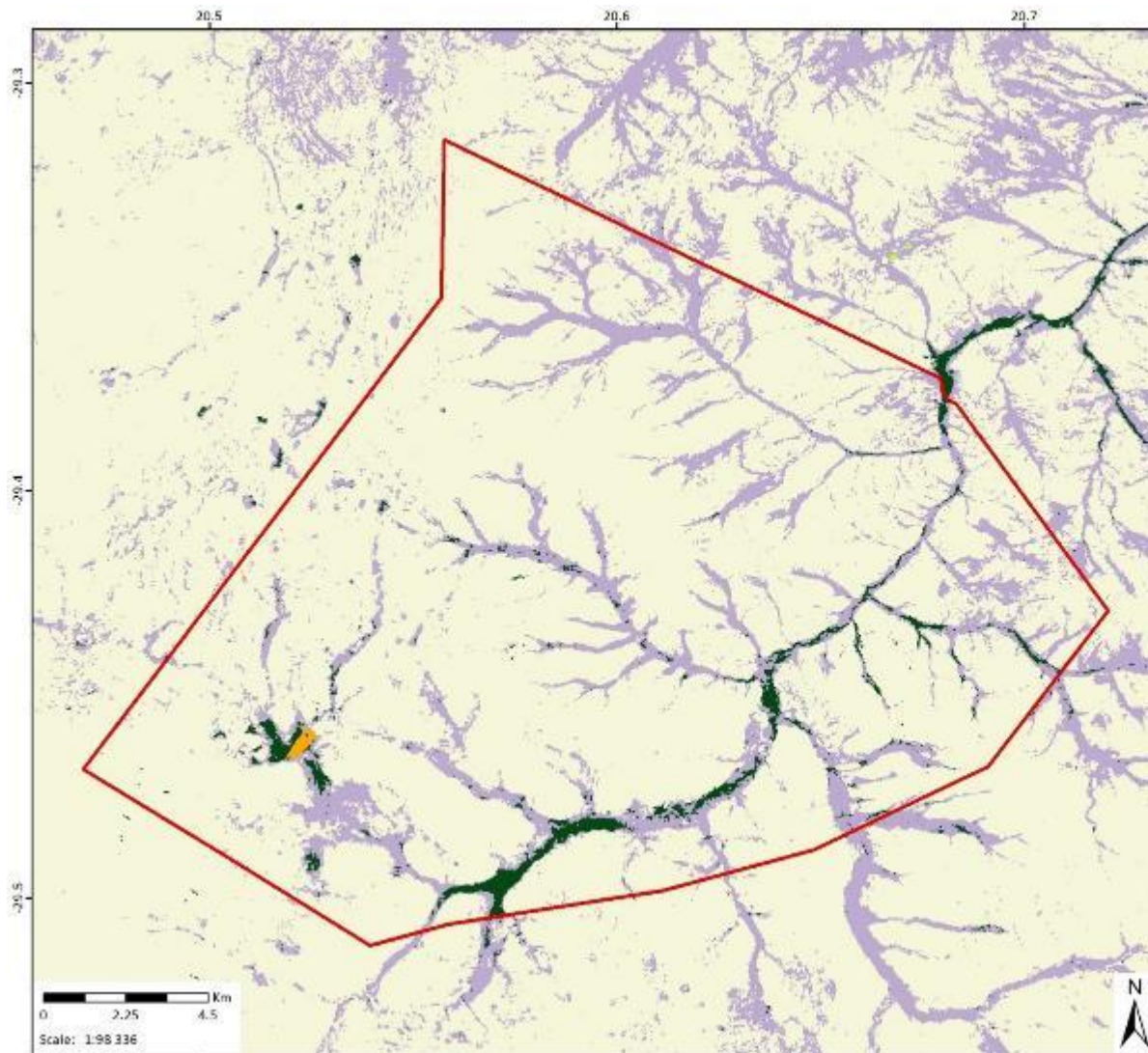
- Legend**
-  Groot Kolk Prospecting Application Area
 - Northern Cape Conservation Plan**
 -  Critical Biodiversity Area One
 -  Critical Biodiversity Area Two
 -  Ecological Support Area
 -  Other Natural Areas



Data Sources:
 CSG, ESRI, SANB
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: Groot Kolk_C-Plan_130428_P11

Date: 2019/02/18
 UMS Ref: 1.004
 Compiled: PH
 Reviewed: GP
 Approved: LW





Groot Kolk Prospecting Right Application Land Cover
1304 BMM Prospecting Right Applications

- Legend**
- Groot Kolk Prospecting Application Area
 - Land Cover**
 - Bare None Vegetated
 - Cultivation
 - Grassland
 - Forest/Thicket/Bush/Woodland
 - Low shrubland
 - Mining Infrastructure
 - Plantations
 - Shrubland fynbos
 - Urban Areas
 - Surface Water Features

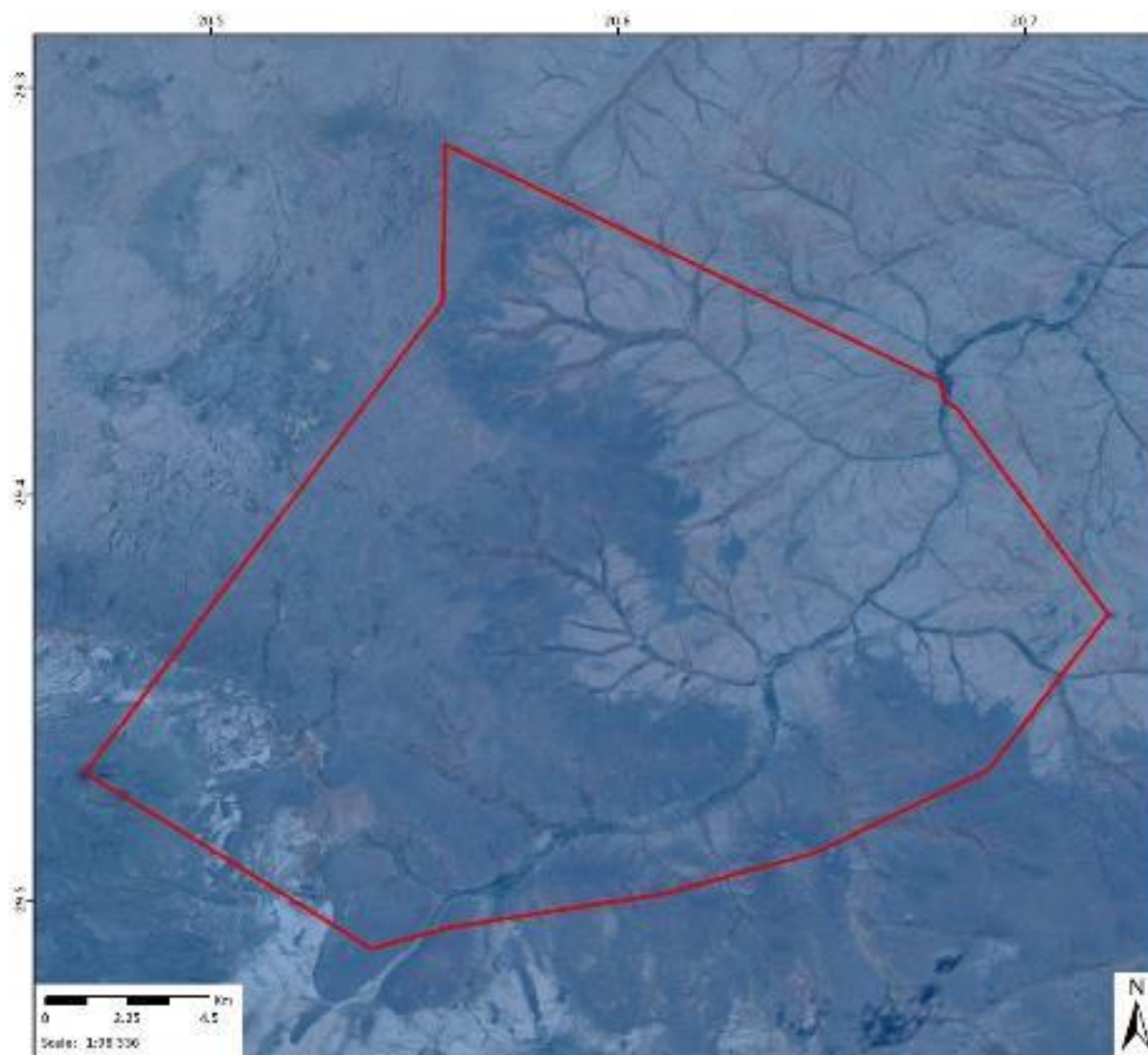


Data Sources:
CSG; ESR; GEOTERRIMAGE; DEA
Coord System: GCS WGS 1984
Datum: WGS 1984

Ref: GrootKolk LandCover 190711 PH

Date: 2019/07/18
EIMS Ref: 1304
Compiled: PH
Reviewed: GP
Approved: LW





**Groot Kolk Prospecting Right
Application Ecosystem Protection Level**
1:242 000 Prospecting Right Application

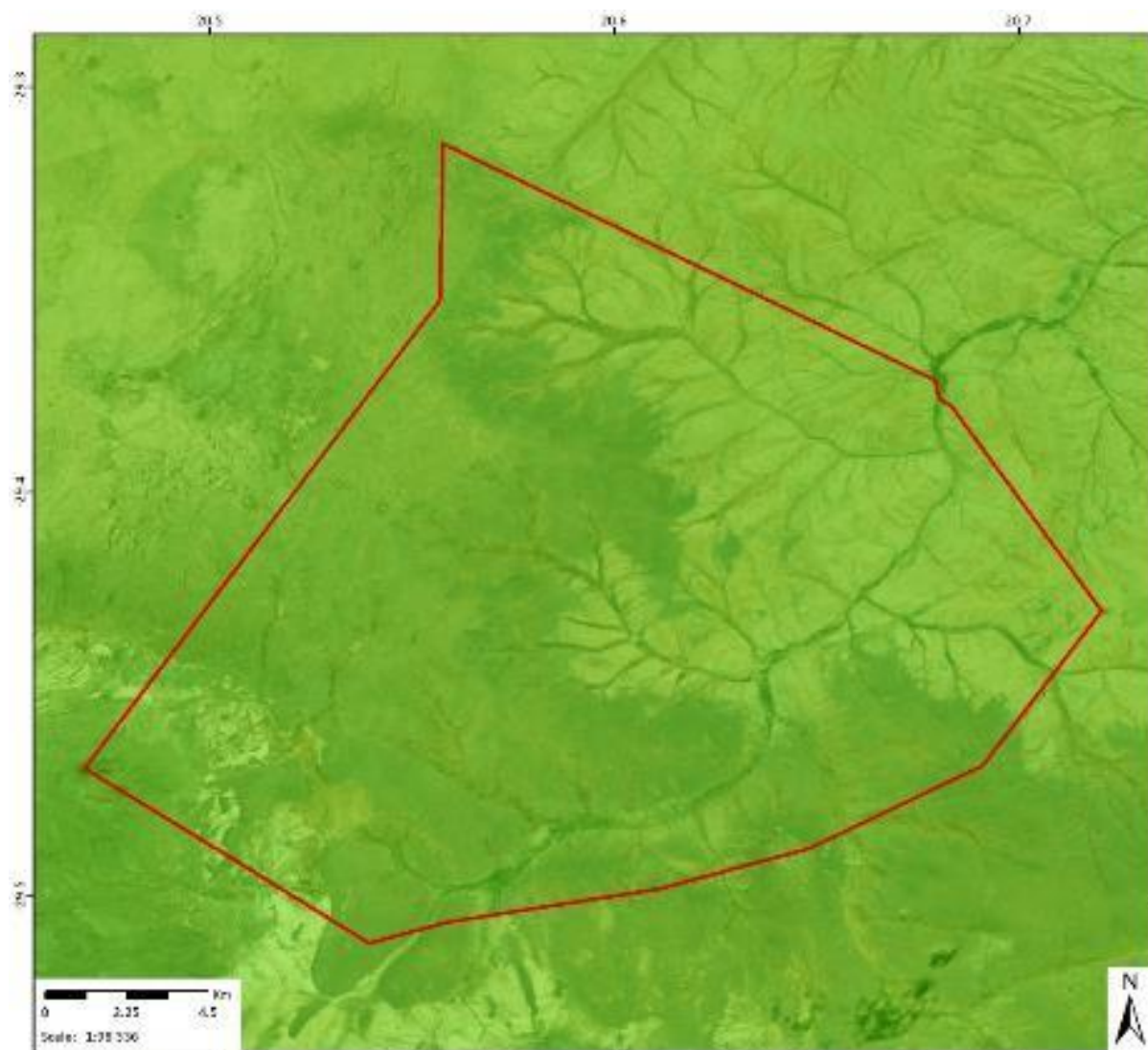
- Legend**
-  Groot Kolk Prospecting Application Area
 - Ecosystem Protection Level**
 -  Well protected
 -  Moderately protected
 -  Poorly protected
 -  Not protected
 -  N/A



Data Sources:
 CSO, CSF: SANBI
 Control System: GCS: WGS 1984
 Datum: WGS 1984
 Ref: Groot Kolk Prospecting 140718 PH

Issue: 2014/05/16
 DMS Ref: 1304
 Compiled: FM
 Reviewed: GP
 Approved: LW





Groot Kolk Prospecting Right Application Ecosystem Threat Status
 1:28 336 Prospecting Right Application

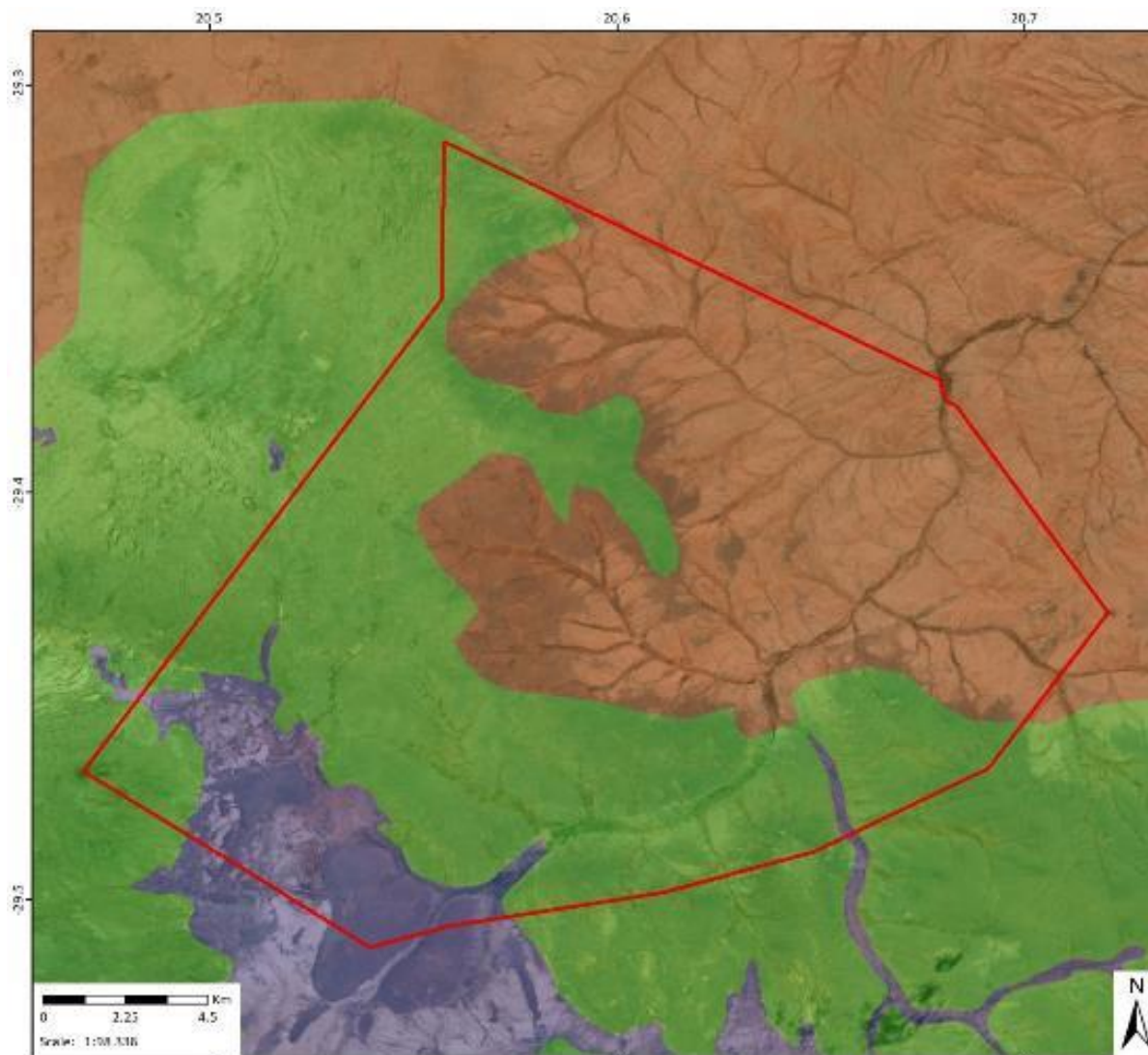
- Legend**
-  Groot Kolk Prospecting Application Area
 - Ecosystem Threat Status**
 -  Critically Endangered
 -  Endangered
 -  Vulnerable
 -  Least Threatened



Data Sources:
 CSO, CSF, SANBI
 Control System: GCS WGS 1984
 Datum: WGS 1984
 Ref: Groot Kolk Threat Status: 190714 PH

Author: JRM/MS/2016
 DMS Ref: 1301
 Compiled: PH
 Reviewed: GP
 Approved: LW





**Groot Kolk Prospecting Right
Application Vegetation**
1304 BMM Prospecting Right Application

Legend

-  Groot Kolk Prospecting Application Area
- Muzina and Rutherford Vegetation**
-  Bushmanland Arid Grassland
-  Bushmanland Basin Shrubland
-  Bushmanland Vloere

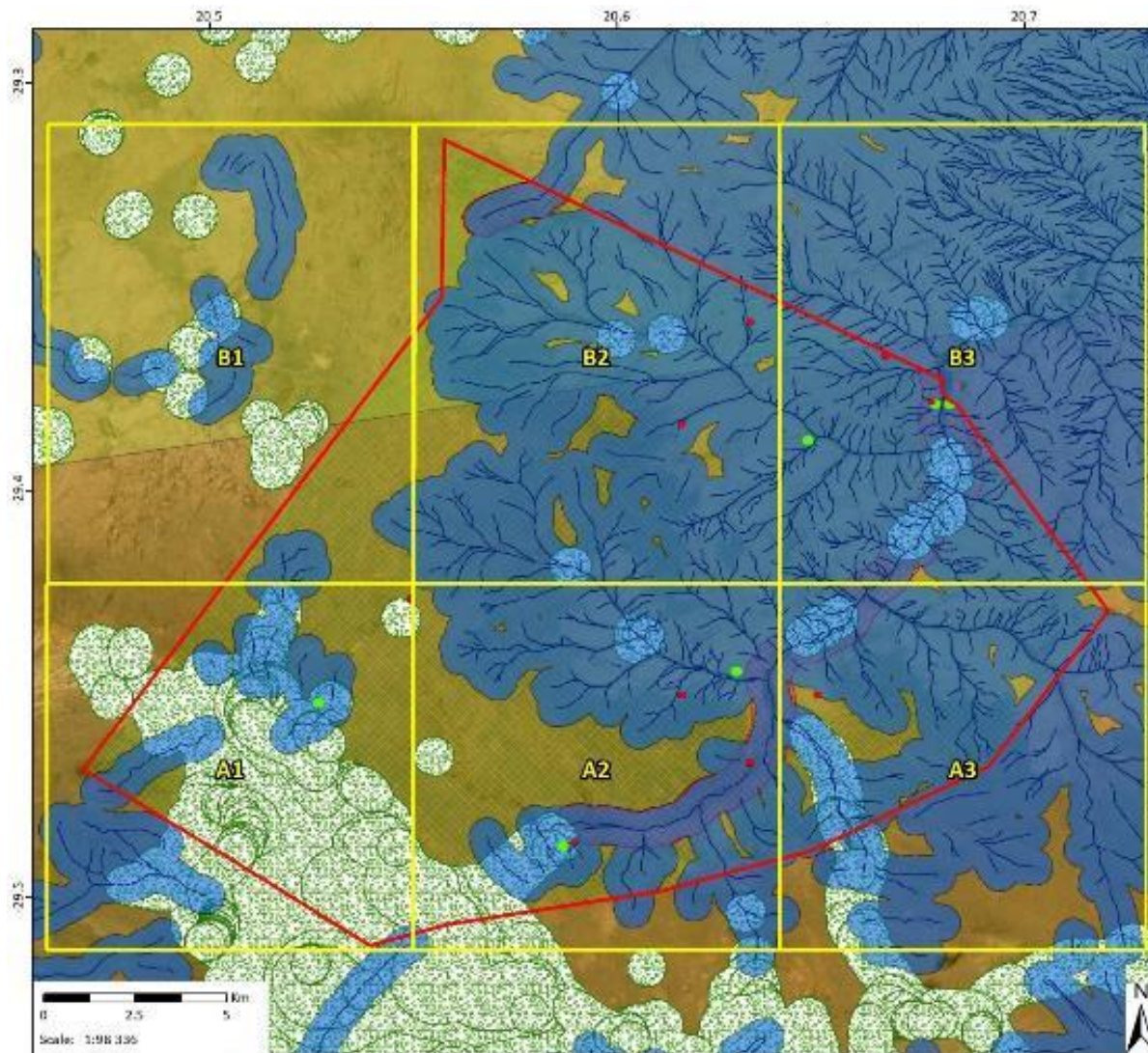


Data Sources:
CSG; FSR; Muzina & Rutherford
Coord System: GCS WGS 1984
Datum: WGS 1984

Ref: Groot Kolk_190718_PH

Date: 2019/07/18
EIMS Ref: 1304
Compiled: PH
Reviewed: GP
Approved: LW





Groot Kolk Proposed Prospecting Area Composite Map: Overview
 1304 BMM Prospecting Rights Applications

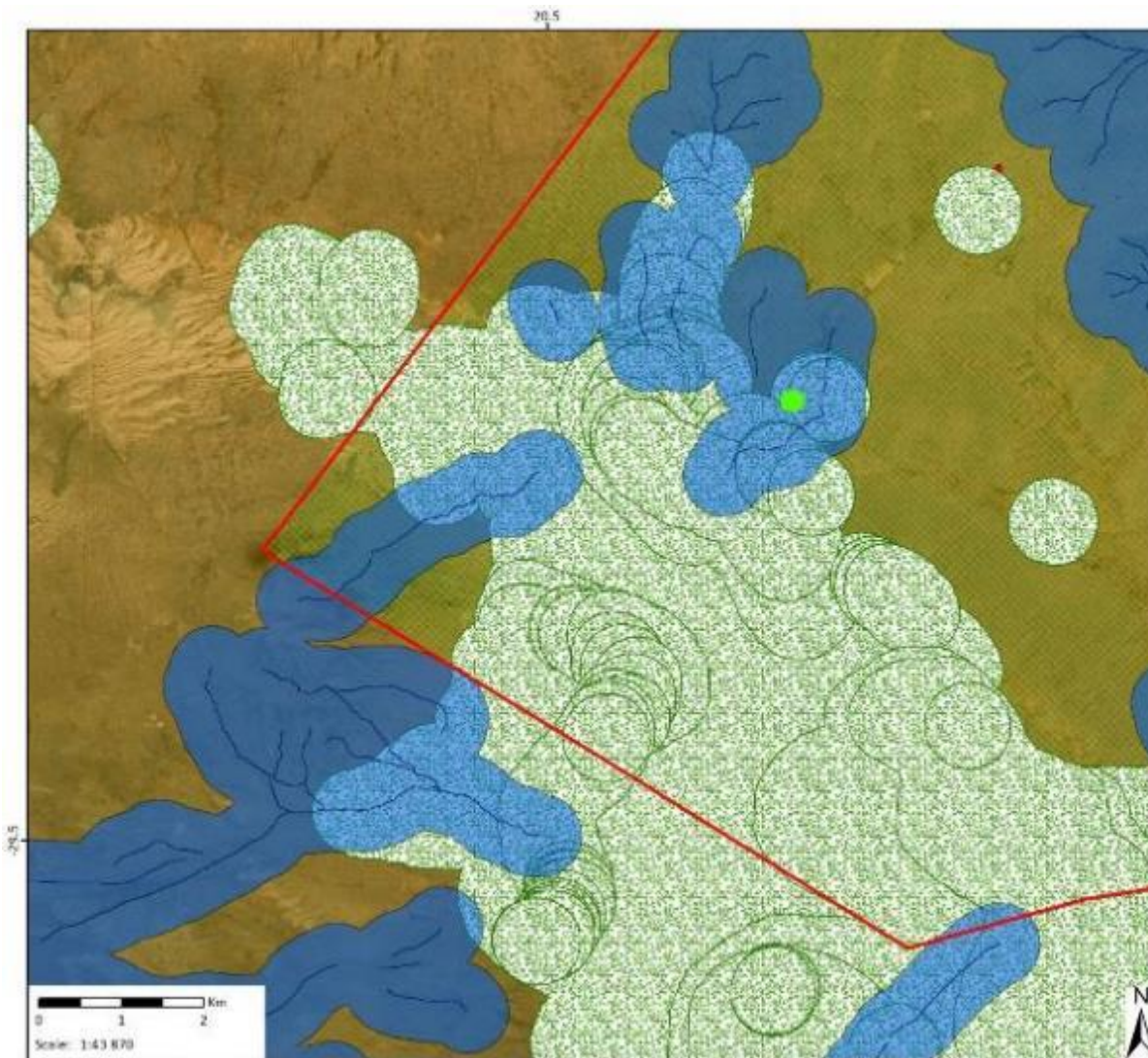
- Legend**
- Map Index Grid
 - Groot Kolk Proposed Prospecting Boundary
 - NGA Boreholes
 - Groot Kolk Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
 - Square Kilometre Area (SKA) Areas**
 - Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Groot Kolk Composite Map_130403_PH

Date: 2016/09/03
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Groot Kolk Proposed Prospecting Area Composite Map: A1
 1304 NMM Prospecting Rights Applications

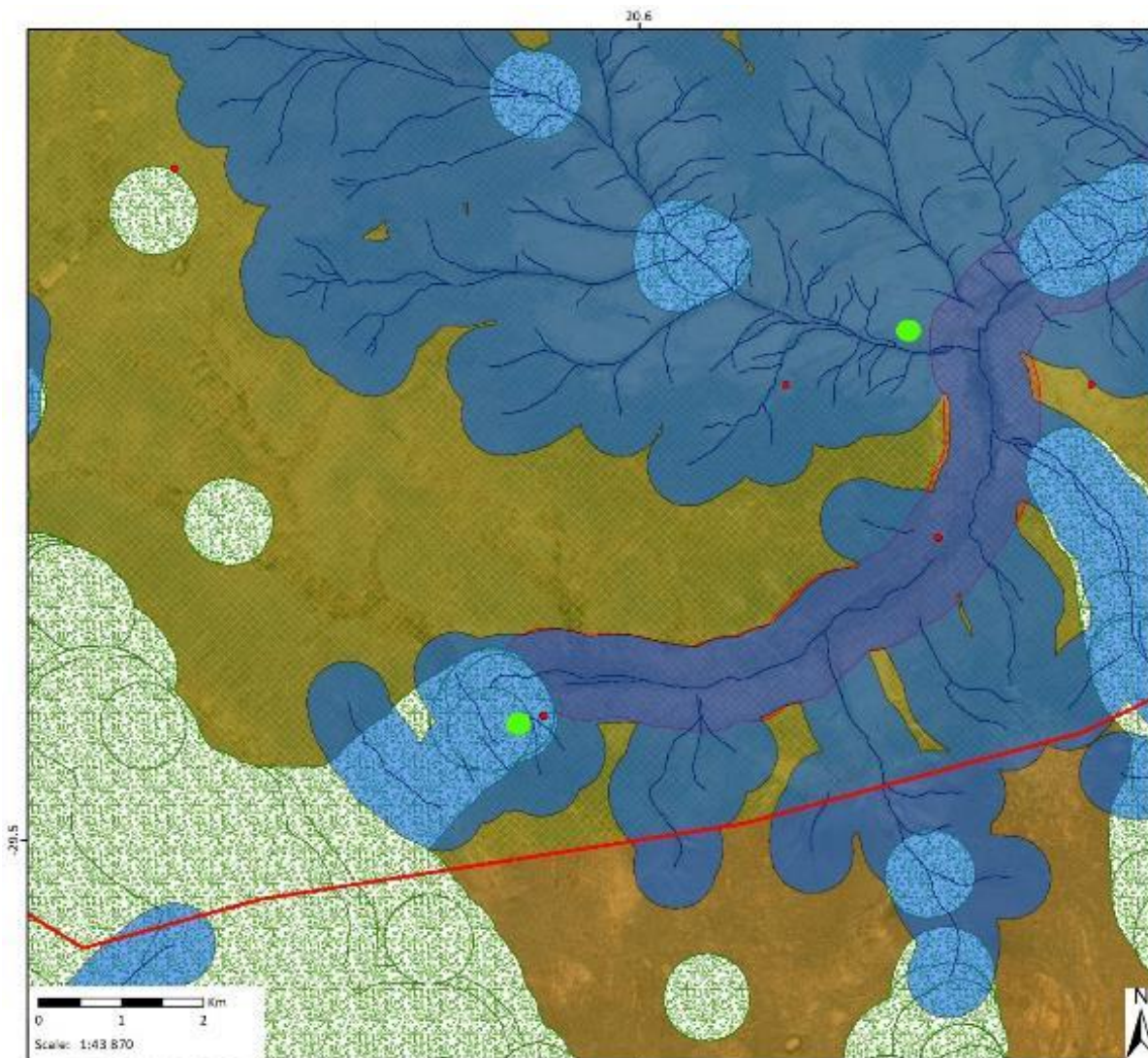
- Legend**
- Groot Kolk Proposed Prospecting Boundary
 - NGA Soreholes
 - Man Made Structures 50m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
 - Square Kilometer Array (SKA) Areas:**
 - Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TRC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Groot Kolk Composite Map_150903_PH

Date: 2019/09/03
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





**Groot Kolk Proposed Prospecting
Area Composite Map: A2**
1304 BMM Prospecting Rights Applications

- Legend**
- Groot Kolk Proposed Prospecting Boundary
 - NGA Boreholes
 - Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
- Square Kilometre Array (SKA) Areas**
- Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3

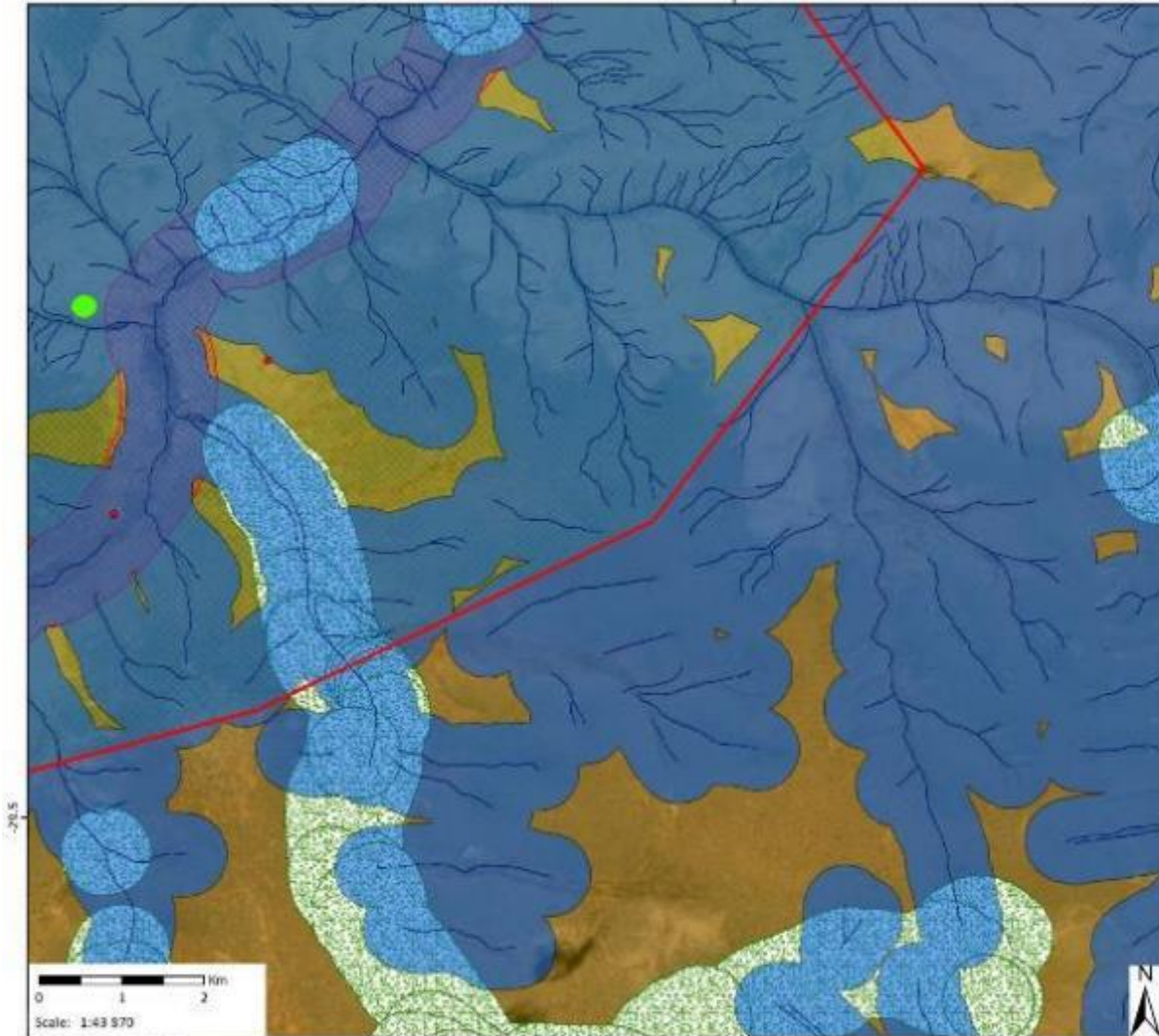


Data Sources:
CSG; FSR; PSG; SRK; TRC; NGA; NFEPA
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: Groot Kolk Composite Map_130403_PH

Date: 2019/09/03
EIMS Ref: 1304
Compiled: PH
Reviewed: GP
Approved: LW



30.7



-29.5

Groot Kolk Proposed Prospecting Area Composite Map: A3
 1304 BMM Prospecting Rights Applications

- Legend**
- Groot Kolk Proposed Prospecting Boundary
 - NGA Boreholes
 - Man-Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
 - Square Kilometer Array (SKA) Areas**
 - Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG: ESRI; PSIG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Groot Kolk Composite Map_190903_P1

Date: 2015/05/03
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Groot Kolk Proposed Prospecting Area Composite Map: B1
 1304 BMM Prospecting Rights Applications

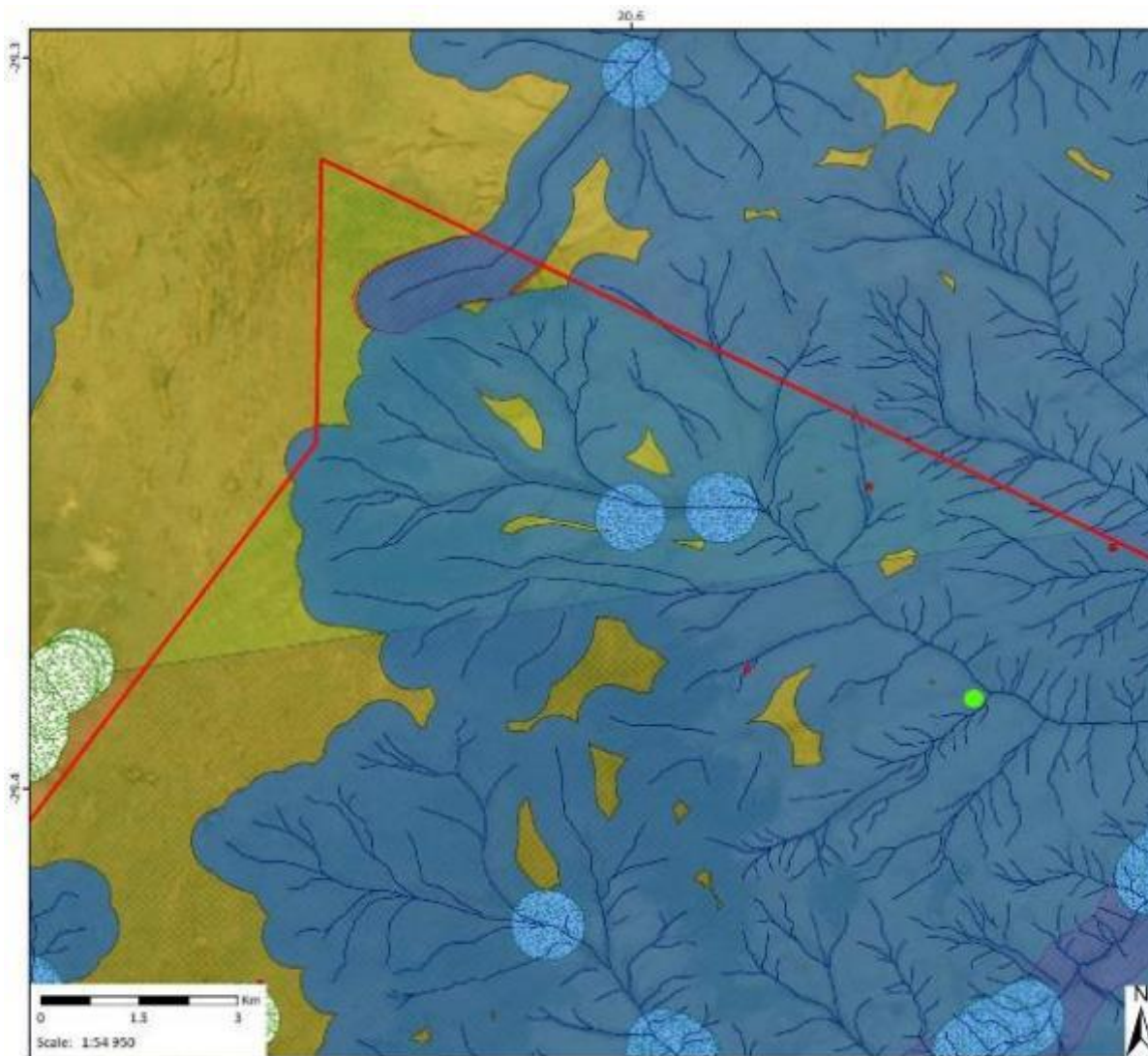
- Legend**
- Groot Kolk Proposed Prospecting Boundary
 - NGA Boreholes
 - Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
 - Square Kilometre Array (SKA) Areas**
 - Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Groot Kolk Composite Map_190903_PH

Date: 2019/09/03
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





**Groot Kolk Proposed Prospecting
Area Composite Map: B2**
1304 BMM Prospecting Rights Applications

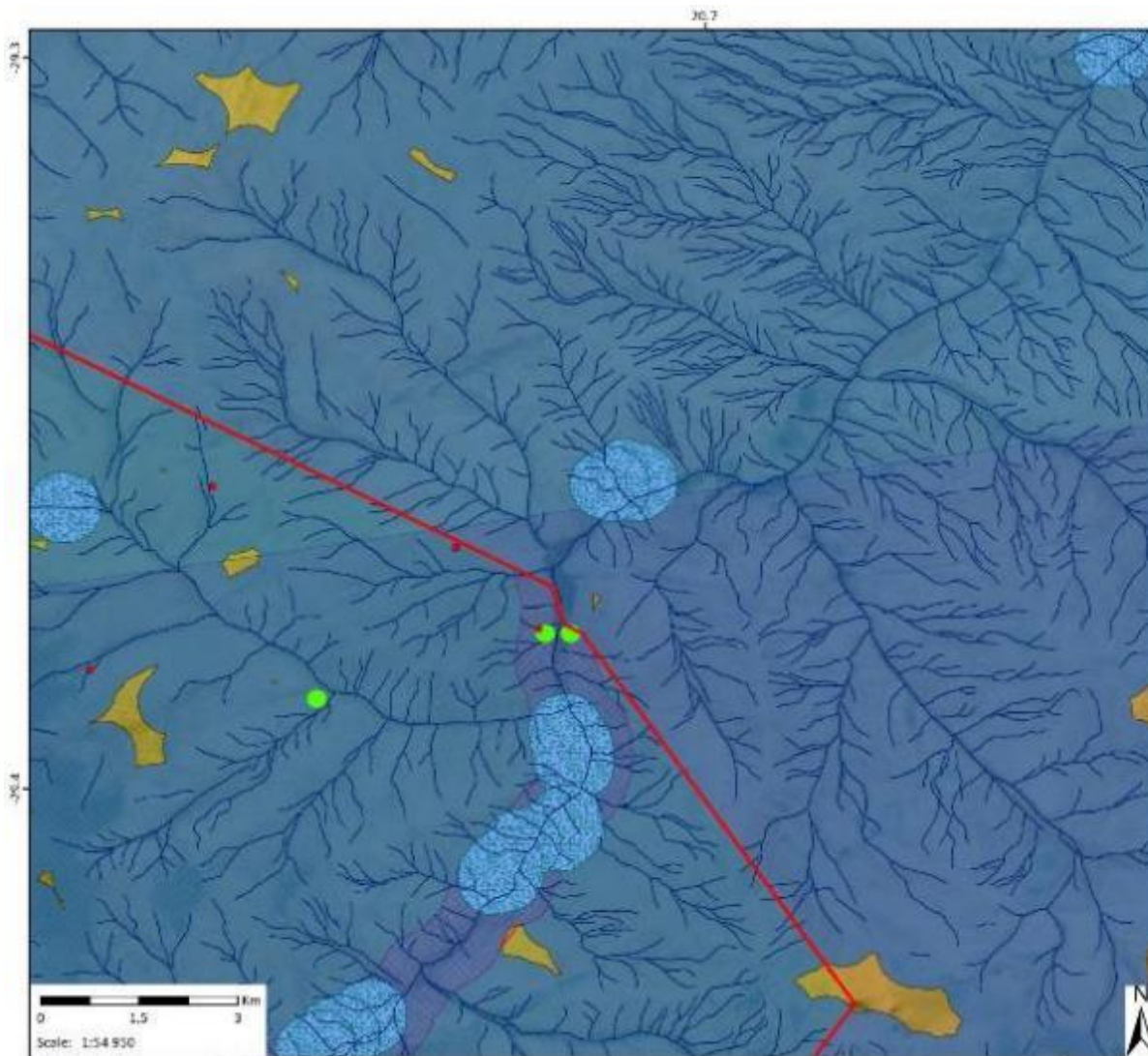
- Legend**
- Groot Kolk Proposed Prospecting Boundary
 - NGA Boreholes
 - Man-Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
- Square Kilometer Array (SKA) Areas**
- Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG: ESRI; PSIG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Groot Kolk Composite Map_190903_P1

Date: 2015/05/03
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Groot Kolk Proposed Prospecting Area Composite Map: B3
 1504 BMM Prospecting Rights Applications

- Legend**
- Groot Kolk Proposed Prospecting Boundary
 - NGA Boreholes
 - Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
 - Square Kilometre Array (SKA) Areas**
 - Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Groot Kolk Composite Map_190903_PH

Date: 2019/09/03
 EIMS Ref: 1504
 Compiled: PH
 Reviewed: GP
 Approved: LW

