

PalRho Prospecting Right Application

Moorddrift 289 Regional Setting

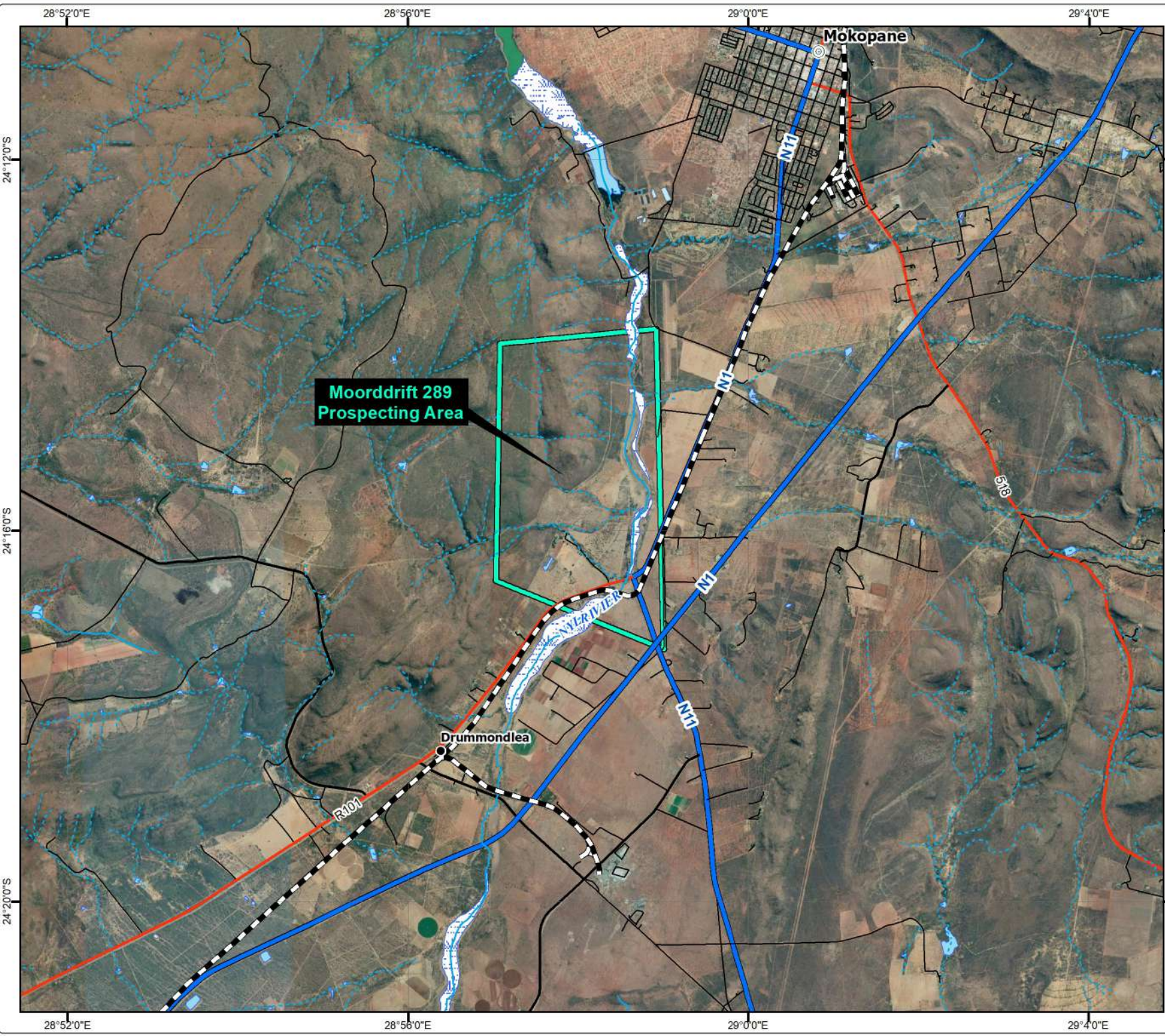
Legend

- Secondary Town
- Other Town
- Settlement
- Railway Line
- National Route
- Main Road
- Secondary Road
- Street
- Non-Perennial River/Stream
- Perennial River/Stream
- Dam/Lake
- Reservoir/Water tank
- Marsh/Swamp
- Non-perennial pan
- Local Municipalities
- District Municipalities
- Moorddrift 289
- Municipal Wards



Projection: Transverse Mercator
 Datum: WGS 1984
 Central Meridian: 29°E
 Date: 16/02/2021
 Ref #: PAL6882_03_PC





PalRho Prospecting Right Application

Moorddrift 289 Local Setting

Legend

- Secondary Town
- Settlement
- Railway Line
- National Route
- Main Road
- Secondary Road
- Street
- Non-Perennial River/Stream
- Perennial River/Stream
- Dam/Lake
- Reservoir/Water tank
- Marsh/Swamp
- Moorddrift 289



Projection: Transverse Mercator
 Datum: WGS 1984
 Central Meridian: 29°E
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 Ref #: PAL6882_06_PC



PaIRho Prospecting Right Application

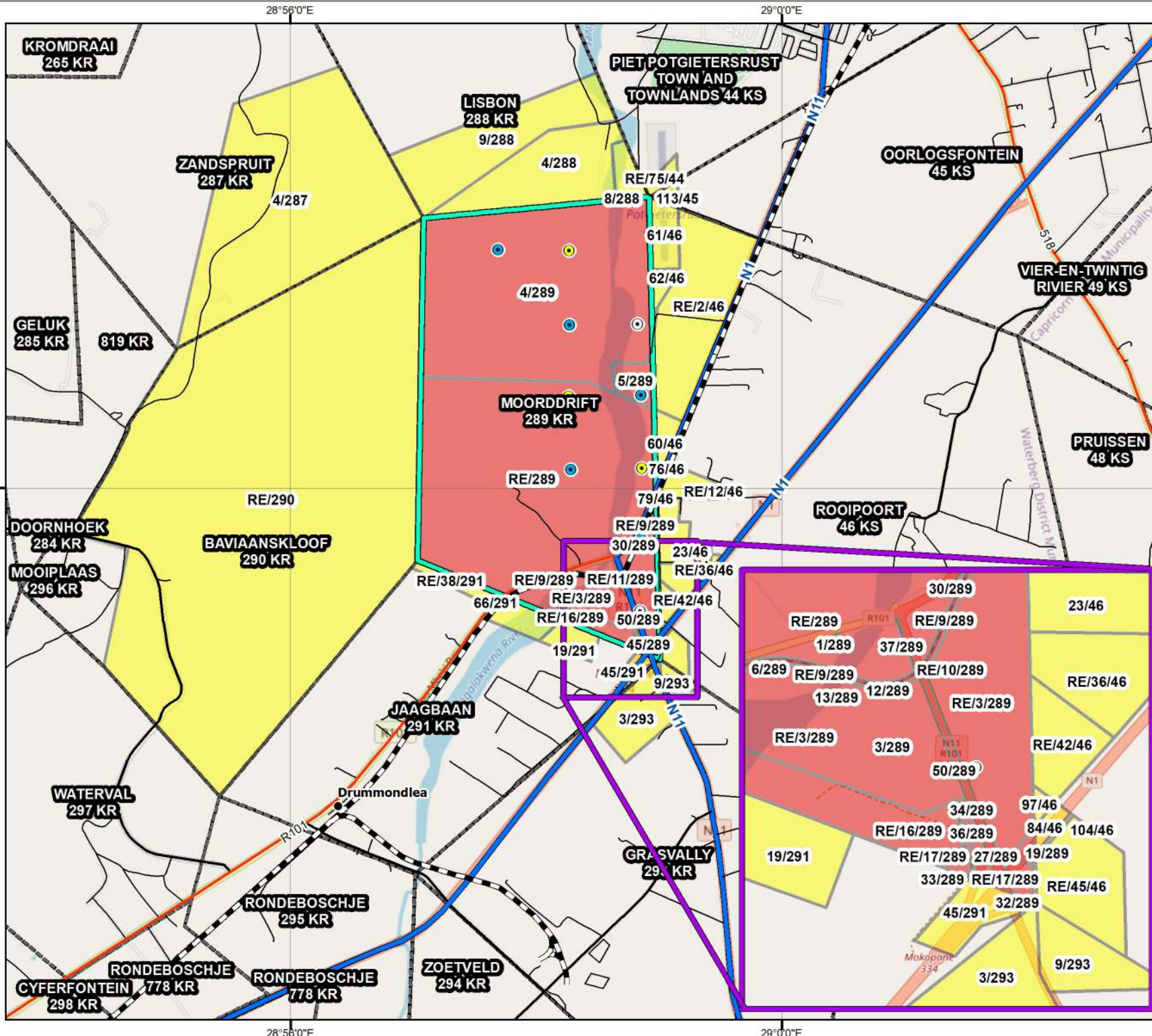
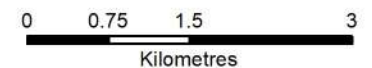
Moorddrift 289 Land Tenure

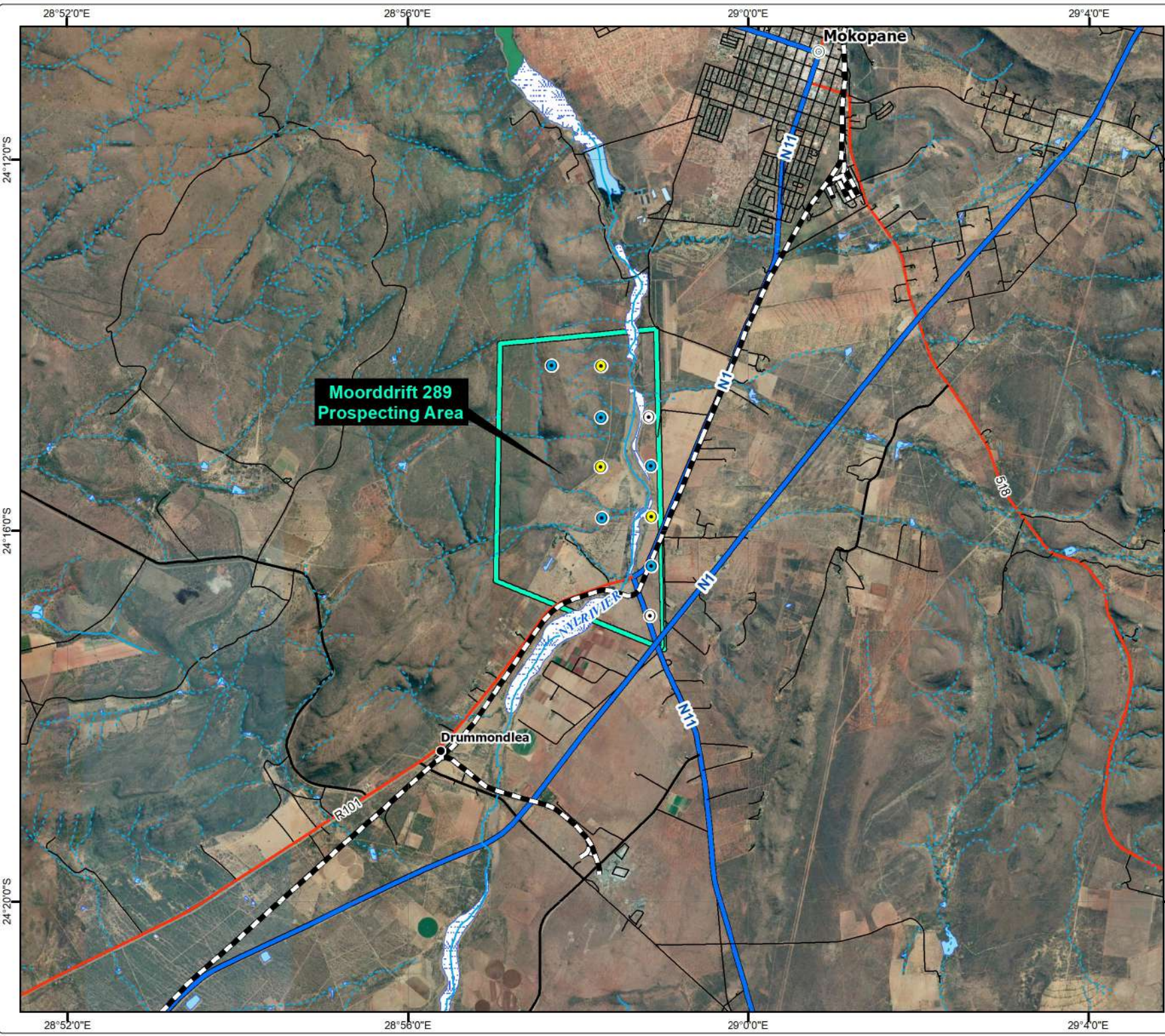
Legend

- Settlement
- Prospecting Programme Phases**
 - Phase 1
 - Phase 2
 - Phase 3
- Railway Line
- National Route
- Main Road
- Secondary Road
- Street
- Moorddrift 289
- Affected Farm Portions**
 - Directly Affected
 - Indirectly Affected
 - Parent Farm



Projection: Transverse Mercator
 Datum: WGS 1984
 Central Meridian: 29°E
 Date: 02/03/2021
 Ref #: PAL6882_PPP_03_PC





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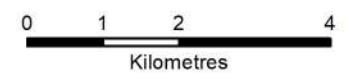
Moorddrift 289 Drilling Locations

Legend

- ⊙ Secondary Town
- Settlement
- Phase 1
- Phase 2
- Phase 3
- Railway Line
- National Route
- Main Road
- Secondary Road
- Street
- - - Non-Perennial River/Stream
- Perennial River/Stream
- Dam/Lake
- Reservoir/Water tank
- Marsh/Swamp
- Moorddrift 289



Projection: Transverse Mercator
 Datum: WGS 1984
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 Ref #: PAL6882_09_PC



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Moorddrift 289 Regional Topography

Legend

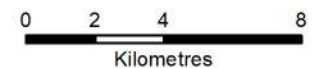
- Secondary Town
- Settlement
- Railway Line
- National Route
- Main Road
- Secondary Road
- Street
- Non-Perennial River/Stream
- Perennial River/Stream
- Moorddrift 289

Elevation (mamsl)	
	952.3 - 960
	960.1 - 990
	990.1 - 1020
	1020.1 - 1050
	1050.1 - 1080
	1080.1 - 1110
	1110.1 - 1140
	1140.1 - 1170
	1170.1 - 1200
	1200.1 - 1230
	1230.1 - 1260
	1260.1 - 1290
	1290.1 - 1320
	1320.1 - 1350
	1350.1 - 1380
	1380.1 - 1410
	1410.1 - 1440
	1440.1 - 1470
	1470.1 - 1500
	1500.1 - 1530
	1530.1 - 1560
	1560.1 - 1590
	1590.1 - 1620
	1620.1 - 1650
	1650.1 - 1680
	1680.1 - 1710
	1710.1 - 1740
	1740.1 - 1770
	1770.1 - 1800
	1800.1 - 1830



DIGBY WELLS
ENVIRONMENTAL

Projection: Transverse Mercator
Datum: WGS 1984
Central Meridian: 29°E
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Ref #: PAL6882_W_38_PC



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Moorddrift 289 Regional Geology

Legend

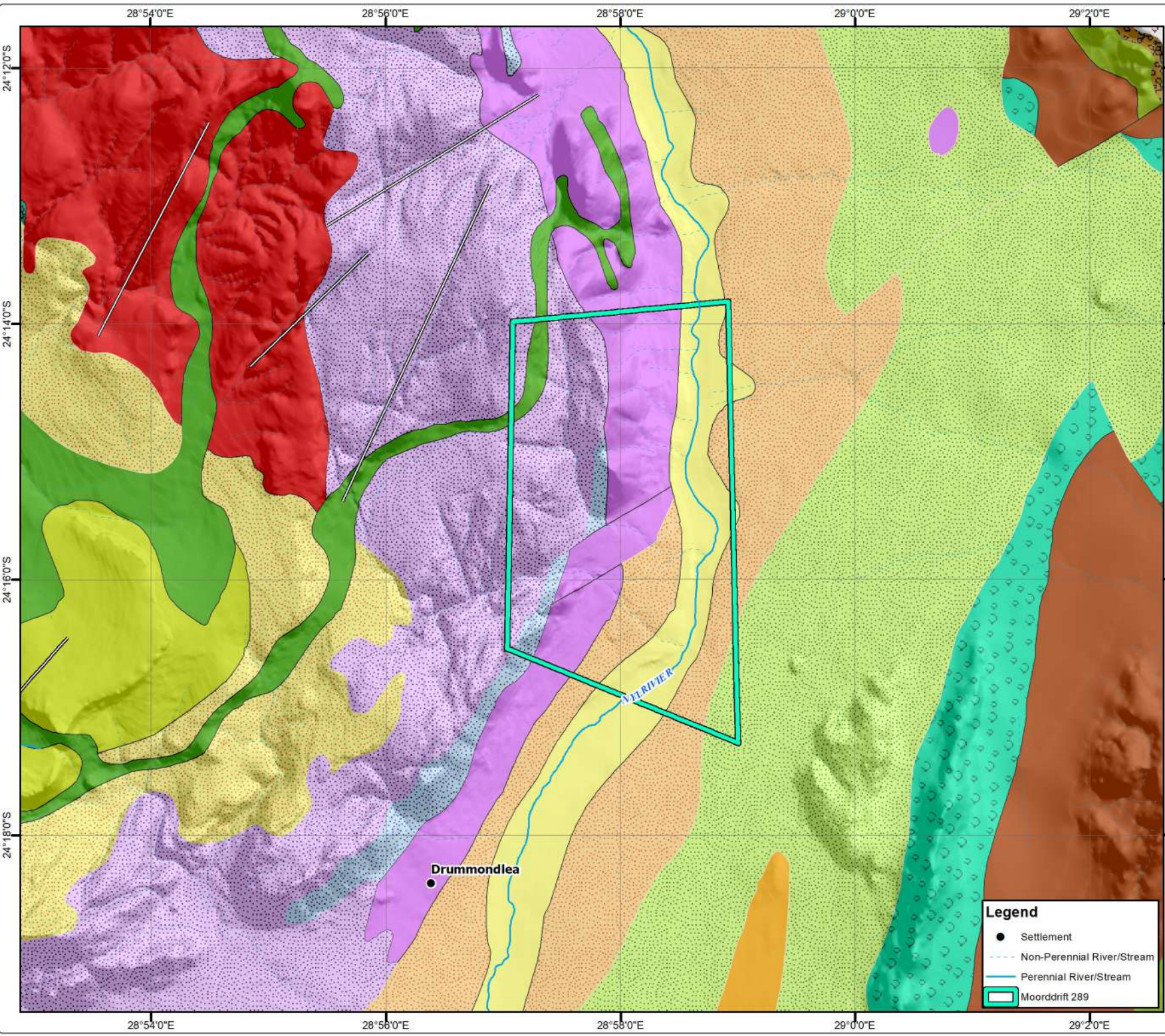
-  Moorddrift 289
-  Structural Feature
- Lithology**
-  Alluvium
-  Coarse-grained granite
-  Diabase
-  Felspathic and lithic sandstone, subordinate conglomerate and mudrock (mainly siltstone)
-  Gabbro, norite
-  Granite granophyre
-  Hornfels
-  Magnetite gabbro with magnetite layers
-  Massive, generally red, porphyritic felsite, minor pyroclastic rocks and sandstone/quartzite
-  Medium- to coarse-grained sandstone (pebbly in places), conglomerate, trachytic lava, quartz porphyry
-  Pyroxenite, harzburgite, chromitite
-  Quartzite with minor shale and siltstone
-  Quartzite, minor shale;
-  Quartzite, shale and andesitic-basaltic lava
-  Quartzitic sandstone, mudrock and (in the west) conglomerate
-  Shale, subordinate siltstone, minor quartzite
-  Trachyte

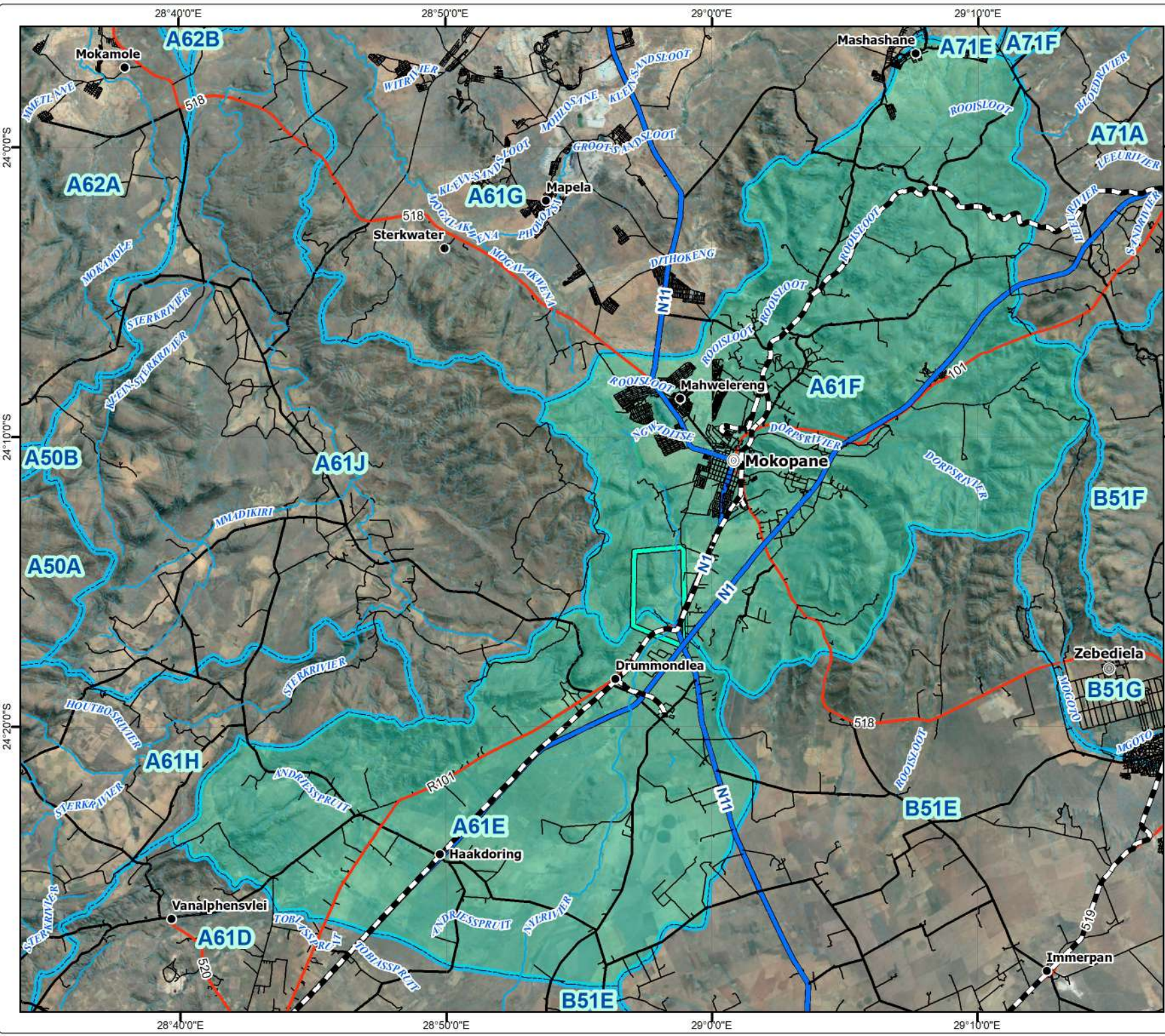


Projection: Transverse Mercator
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 Ref #: PAL6882_W_41_PC



- ### Legend
-  Settlement
 -  Non-Perennial River/Stream
 -  Perennial River/Stream
 -  Moorddrift 289





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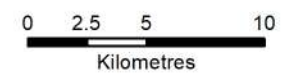
Moorddrift 289 Quaternary Catchments

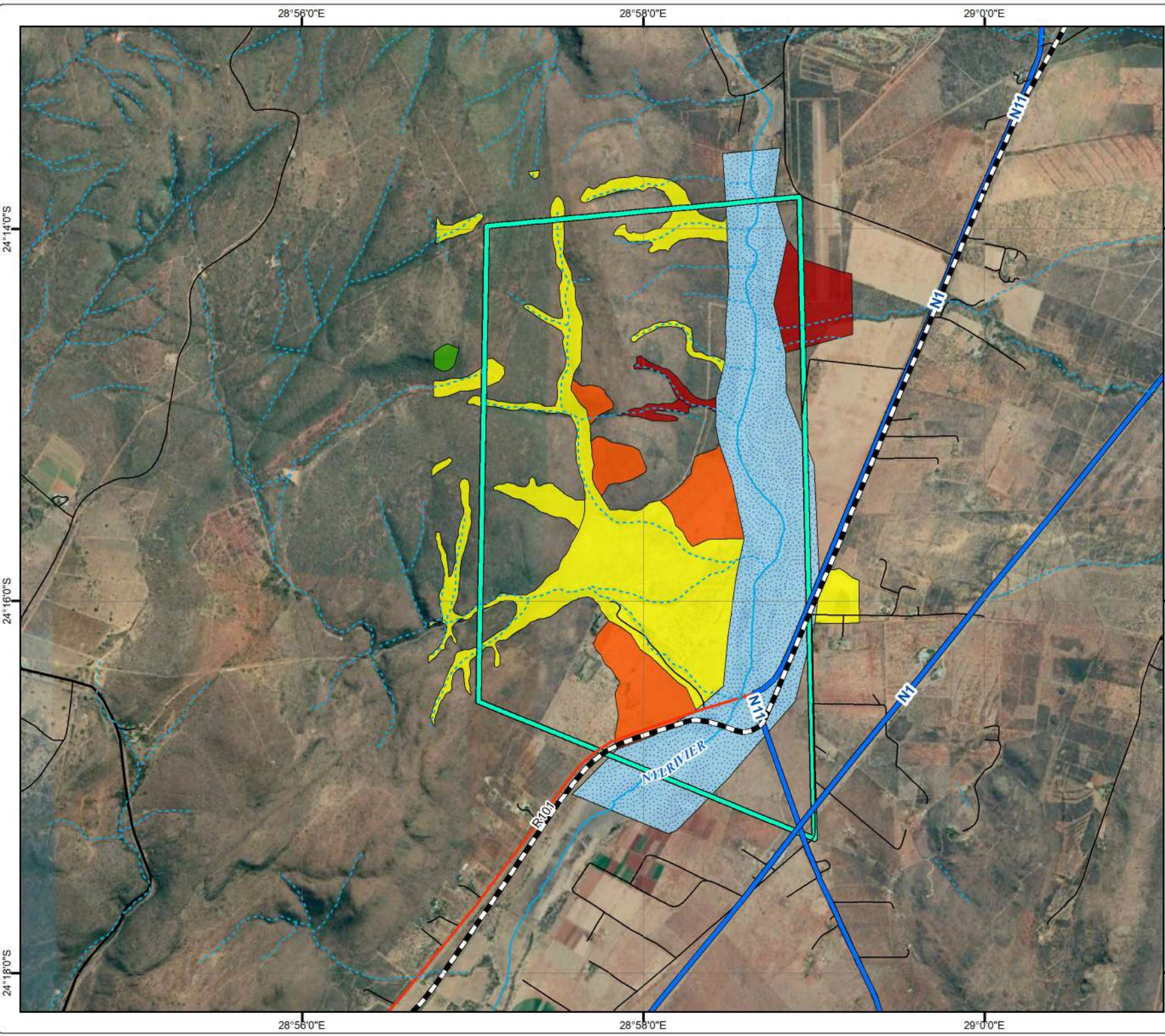
Legend

- Secondary Town
- Other Town
- Settlement
- Railway Line
- National Route
- Main Road
- Secondary Road
- Street
- Non-Perennial River/Stream
- Perennial River/Stream
- Moorddrift 289
- Quaternary Catchment
- A61F, A61E



Projection: Transverse Mercator
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Moorddrift 289 Wetland Delineation

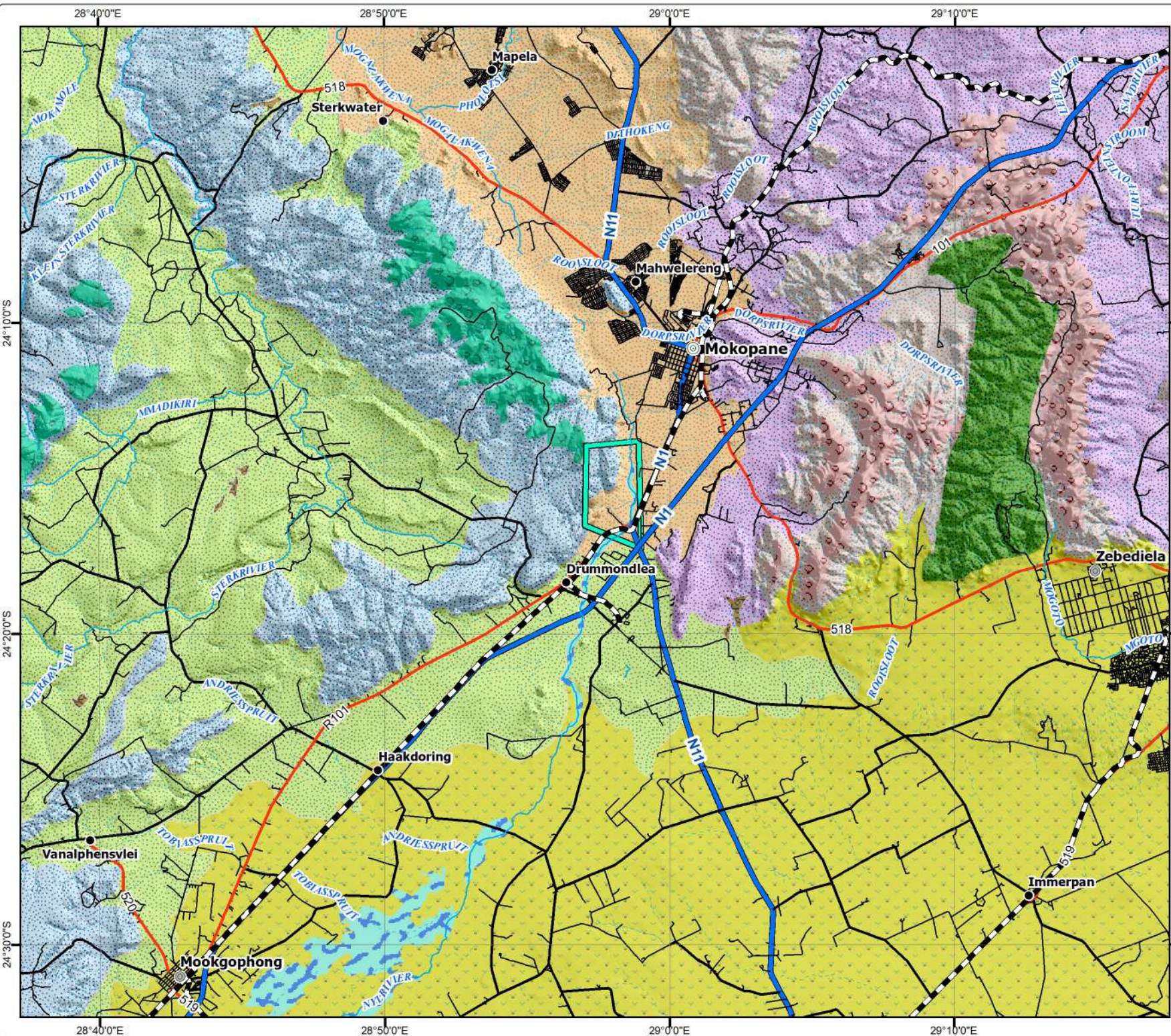
Legend

- Railway Line
 - National Route
 - Main Road
 - Secondary Road
 - Street
 - Non-Perennial River/Stream
 - Perennial River/Stream
- HGM Units**
- Channeled Valley Bottom
 - Floodplain
 - Isolated Seep
 - Seep
 - Unchanneled Valley Bottom
 - Moorddrift 289



Projection: Transverse Mercator
 Datum: WGS 1984
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PalRho Prospecting Right Application

Moordrift 289 Regional Vegetation

Legend

- ⊙ Secondary Town
- ⊙ Other Town
- Settlement
- Railway Line
- National Route
- Main Road
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- Street
- Non-Perennial River/Stream
- Perennial River/Stream

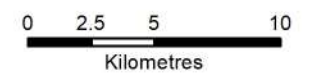
Regional Vegetation

(Mucina & Rutherford, 2012)

- Central Sandy Bushveld
- Makhado Sweet Bushveld
- Mamabolo Mountain Bushveld
- Northern Afrotemperate Forest
- Polokwane Plateau Bushveld
- Poung Dolomite Mountain Bushveld
- Springbokvlakte Thornveld
- Strydpoort Summit Sourveld
- Subtropical Freshwater Wetlands
- Waterberg Mountain Bushveld
- Waterberg-Magaliesberg Summit Sourveld
- Moordrift 289



Projection: Transverse Mercator
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28°55'0"E

29°0'0"E

24°10'0"S

24°15'0"S

24°20'0"S

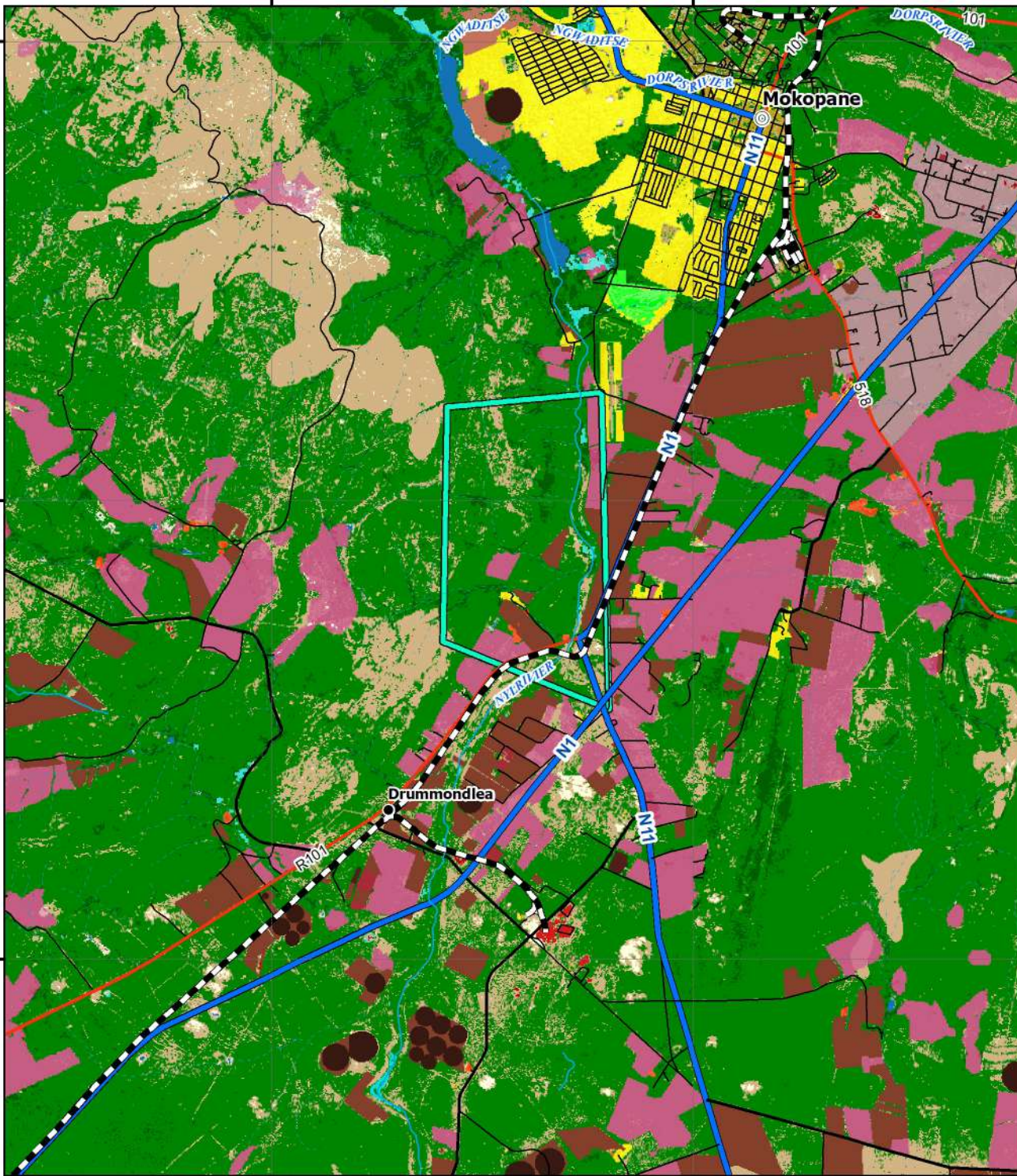
28°55'0"E

29°0'0"E

24°10'0"S

24°15'0"S

24°20'0"S



National Landcover 2018 (GTI)

- contiguous low forest & thicket
- dense forest & woodland
- open woodland
- contiguous & dense plantation forest
- open & sparse plantation forest
- sparsely wooded grassland
- natural grassland
- natural pans (flooded @ observation times)
- artificial dams (including canals)
- artificial sewage ponds
- artificial flooded mine pits
- herbaceous wetlands (currently mapped)
- herbaceous wetlands (previously mapped)
- natural rock surfaces
- dry pans
- eroded lands
- bare riverbed material
- other bare
- cultivated commercial permanent orchards
- commercial annual crops pivot irrigated
- commercial annual crops non-pivot irrigated
- commercial annual crops rain-fed / dryland
- subsistence / small-scale annual crops
- fallow land & old fields (trees)
- fallow land & old fields (bush)
- fallow land & old fields (grass)
- fallow land & old fields (bare)
- residential formal (tree)
- residential formal (bush)
- residential formal (low veg / grass)
- residential formal (bare)
- residential informal (tree)
- residential informal (bush)
- residential informal (low veg / grass)
- residential informal (bare)
- village scattered (bare & low veg / grss combo)
- village dense (bare & low veg / grss combo)
- smallholdings (tree)
- smallholdings (bush)
- smallholdings (low veg / grass)
- smallholdings (bare)
- urban recreational fields (tree)
- urban recreational fields (bush)
- urban recreational fields (grass)
- commercial
- industrial
- roads & rails (major linear)
- mines: extraction pits, quarries
- mine: tailings and resource dumps
- fallow land & old fields (wetlands)

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Moorddrift 289 Landcover

Legend

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- Perennial River/Stream
- Moorddrift 289



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PalRho Prospecting Right Application

Moorddrift 289 Composite Map

Legend

- Railway Line
- National Route
- Main Road
- Secondary Road
- Street
- Non-Perennial River/Stream
- Perennial River/Stream
- Moorddrift 289

Prospecting Programme Phases

- Phase 1
- Phase 2
- Phase 3

Wetland HGM Units

- Channeled Valley Bottom
- Floodplain
- Isolated Seep
- Seep
- Unchanneled Valley Bottom

Wetland Buffer Extent

- 100m
- 500m



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ENVIRONMENTAL

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