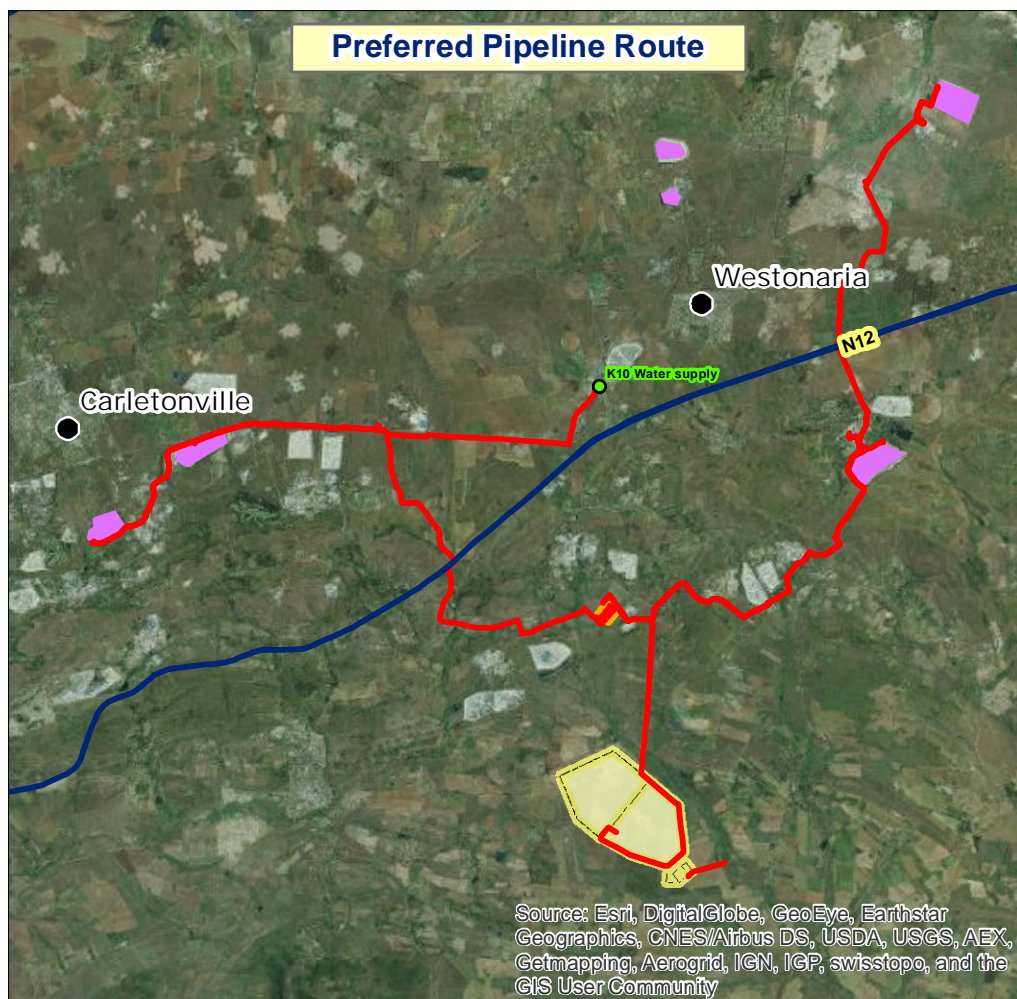
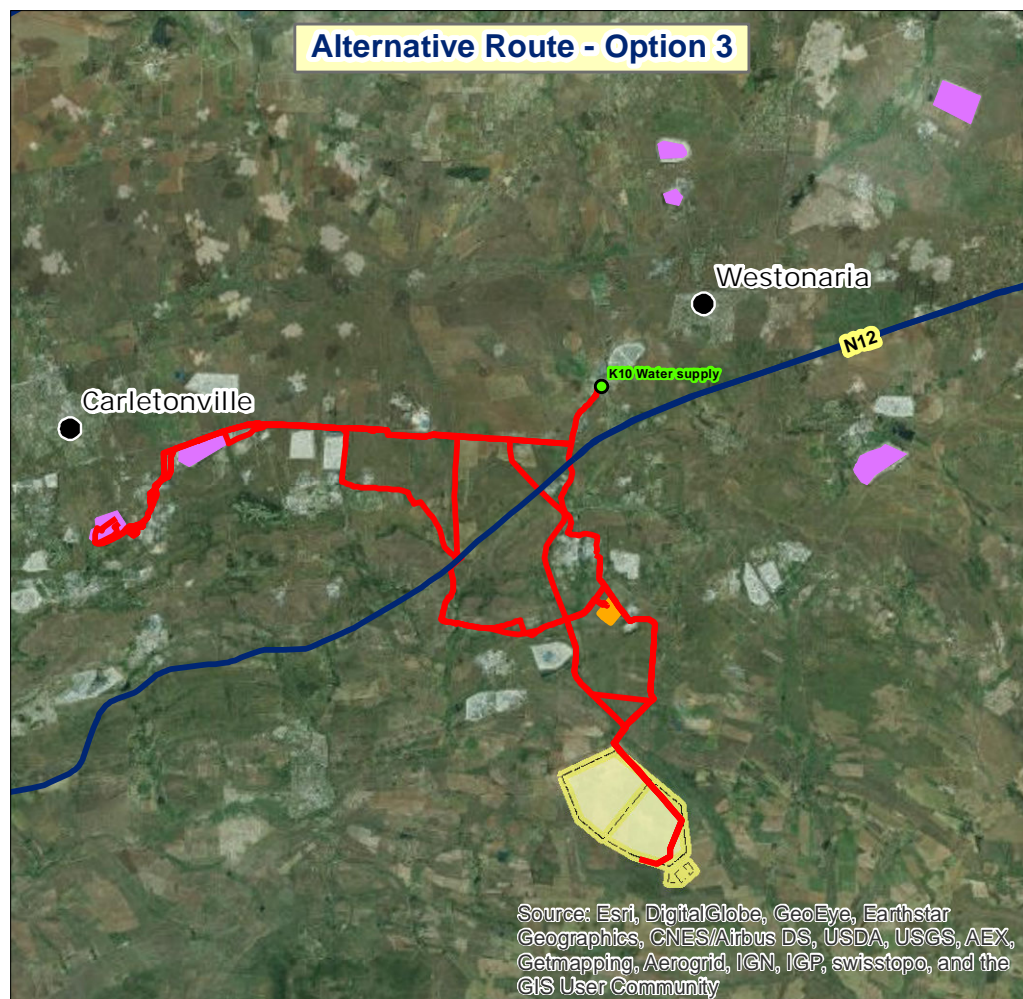
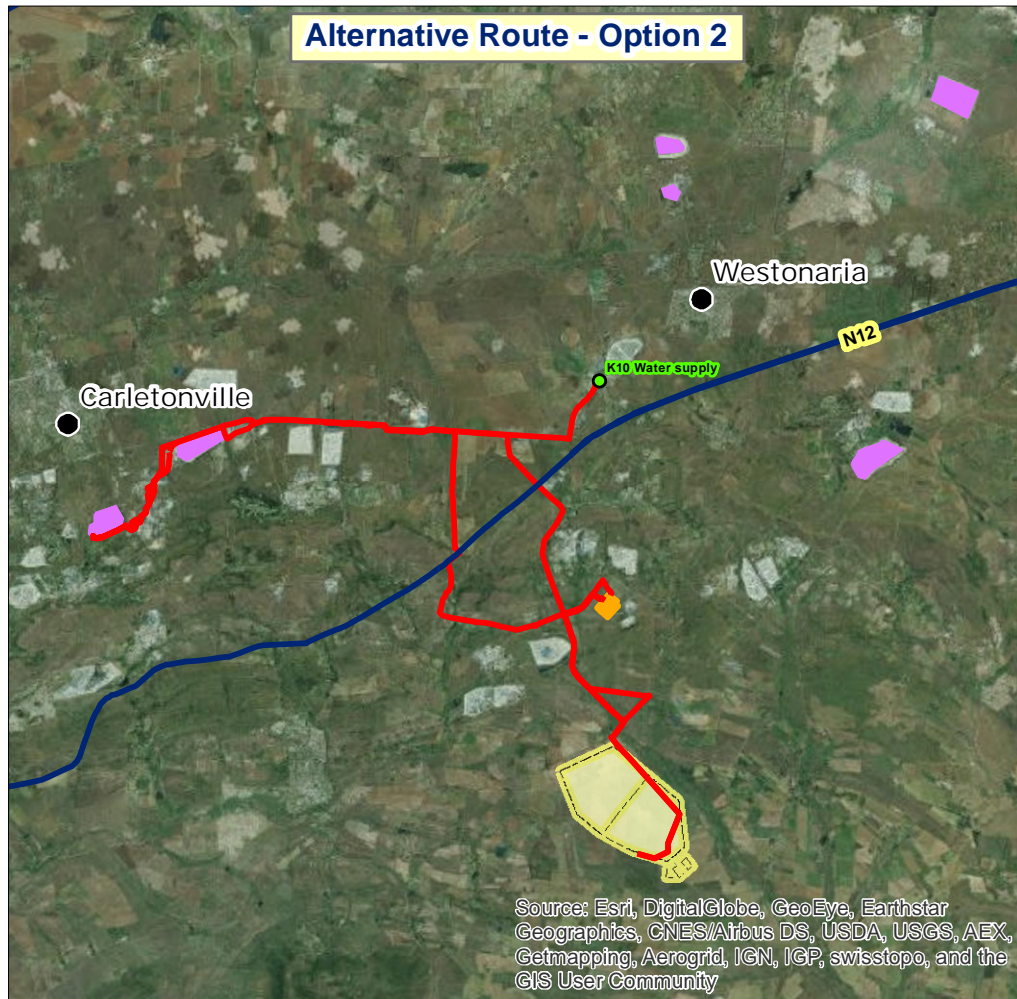
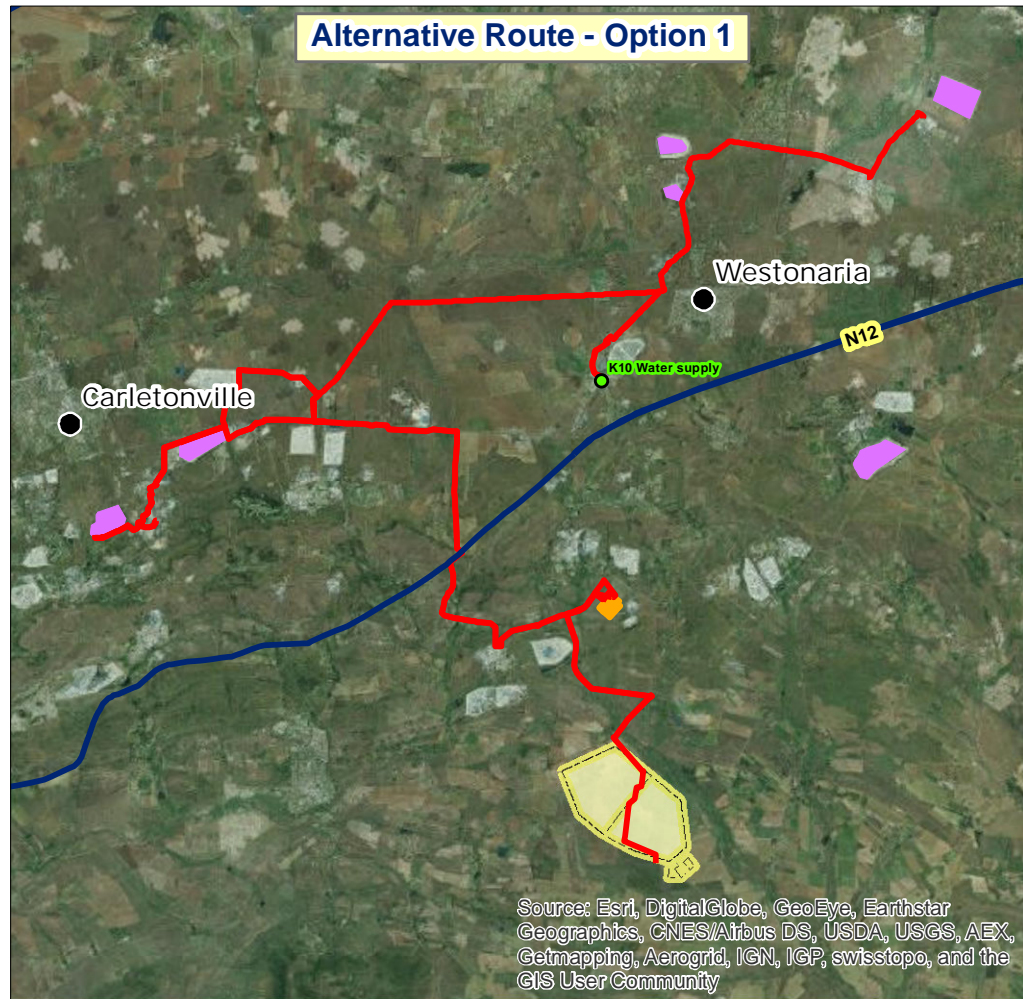


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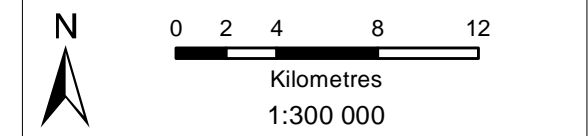
Pipeline Alternatives

Legend

- Major Town
 - Arterial / National Route
 - Proposed Pipeline Infrastructure
- Infrastructure**
- Infrastructure Point
 - CPP
 - RTSF
 - TSF Infrastructure



Projection: Transverse Mercator Ref #: meg.GOL2376.201508.067
 Datum: WGS 1984 Revision Number: 3
 Central Meridian: 29°E Date: 21/12/2015

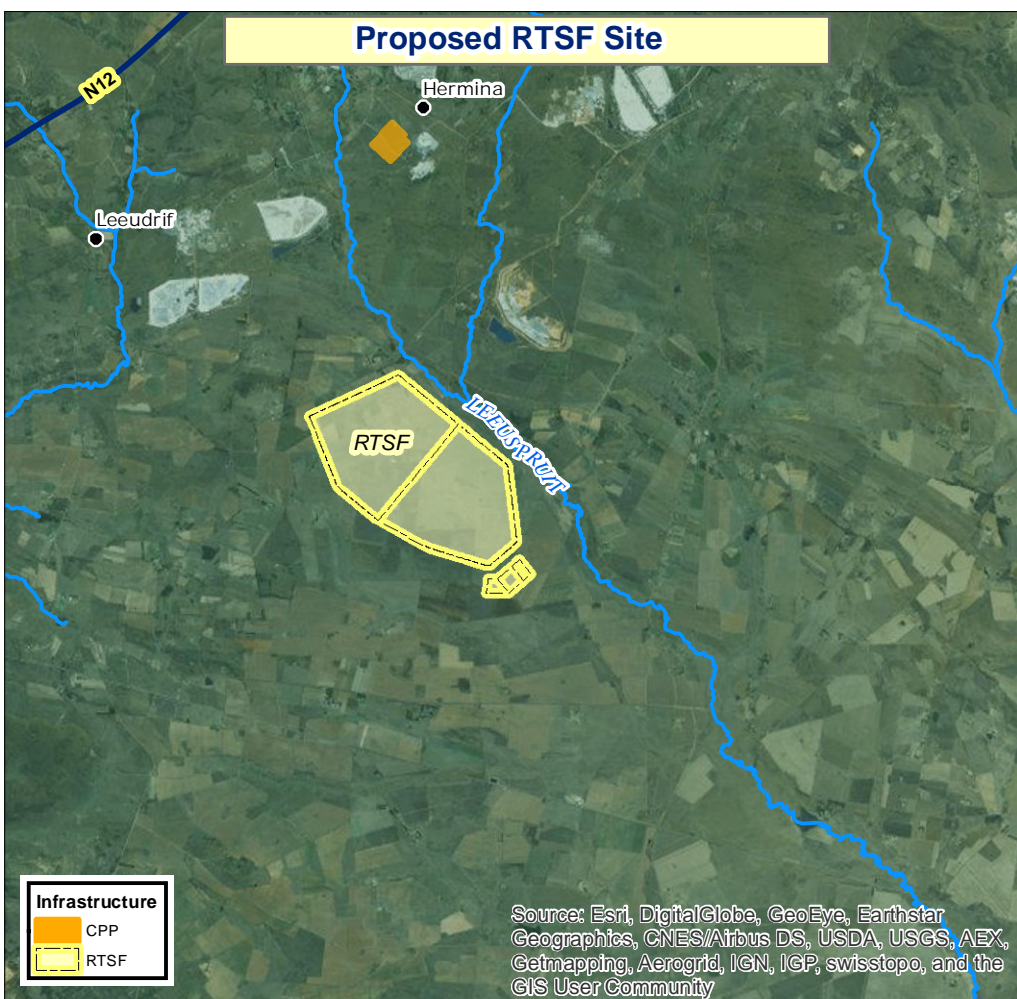
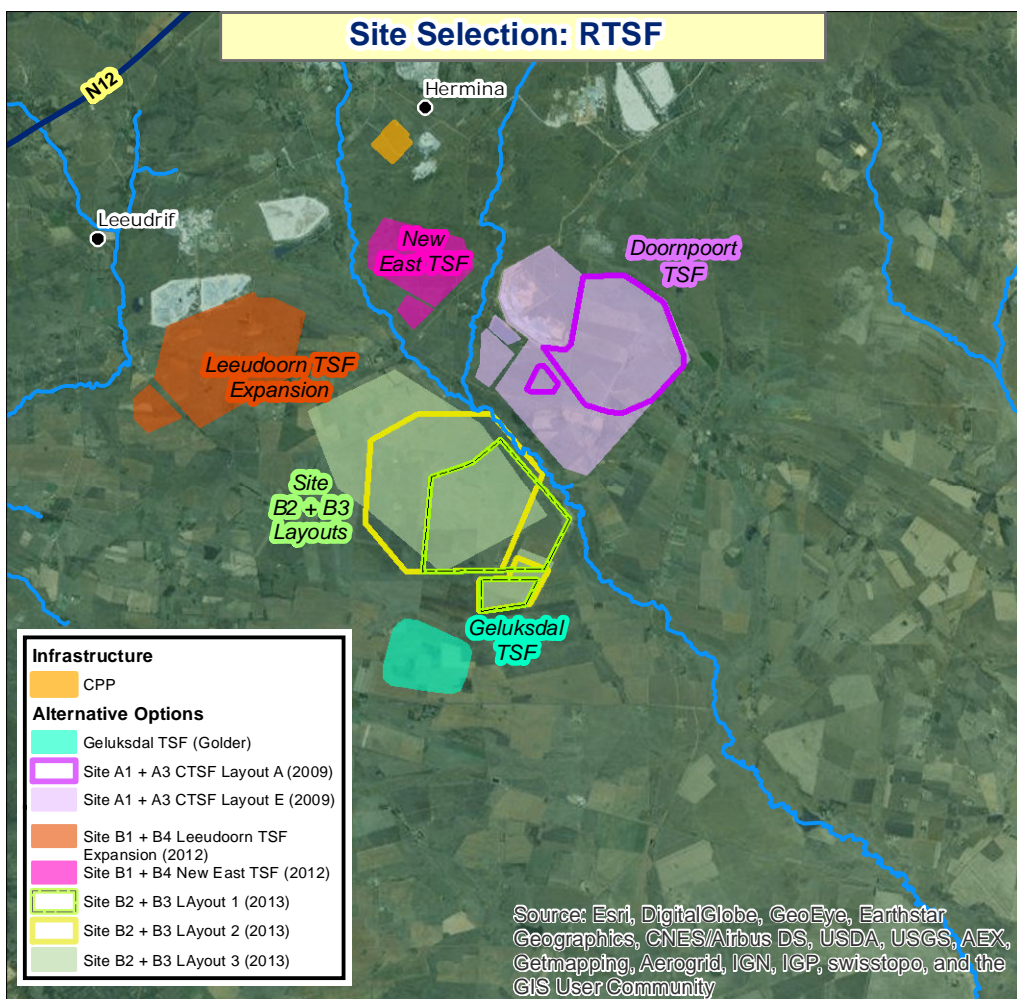
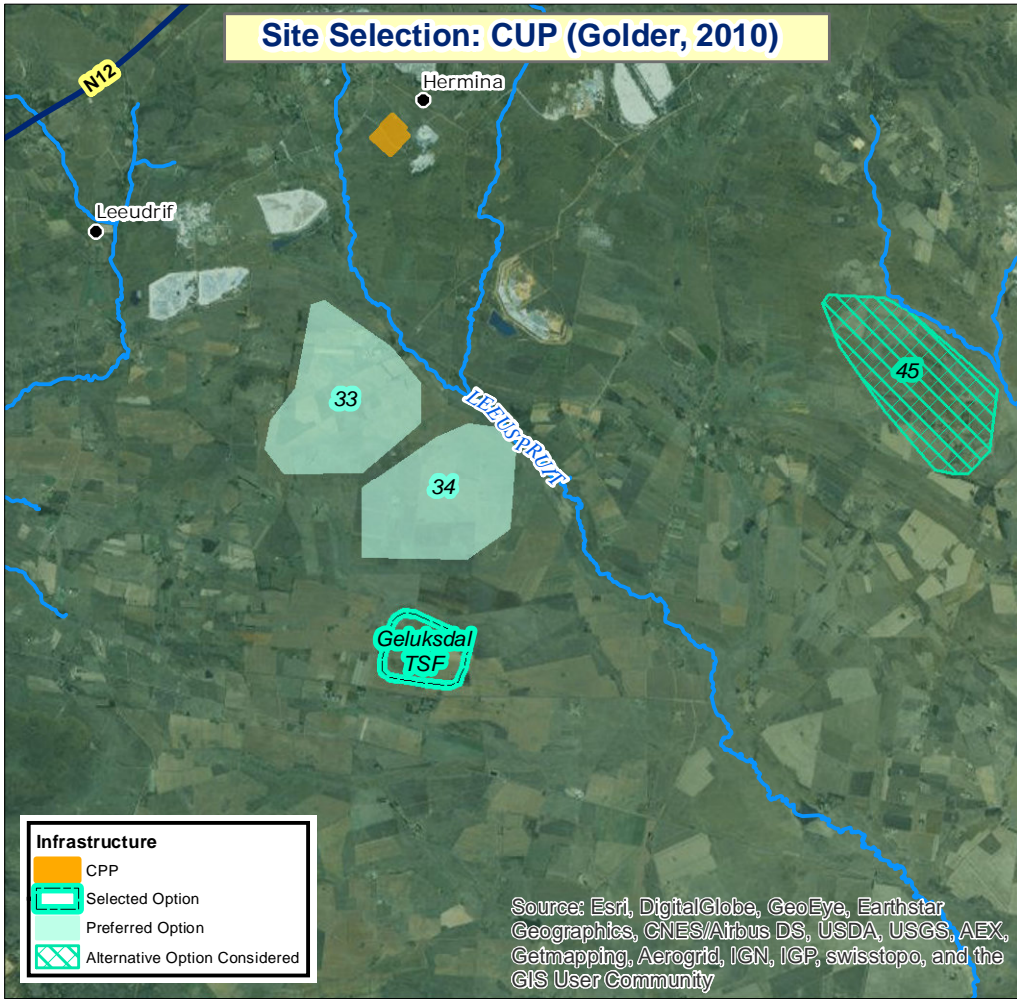
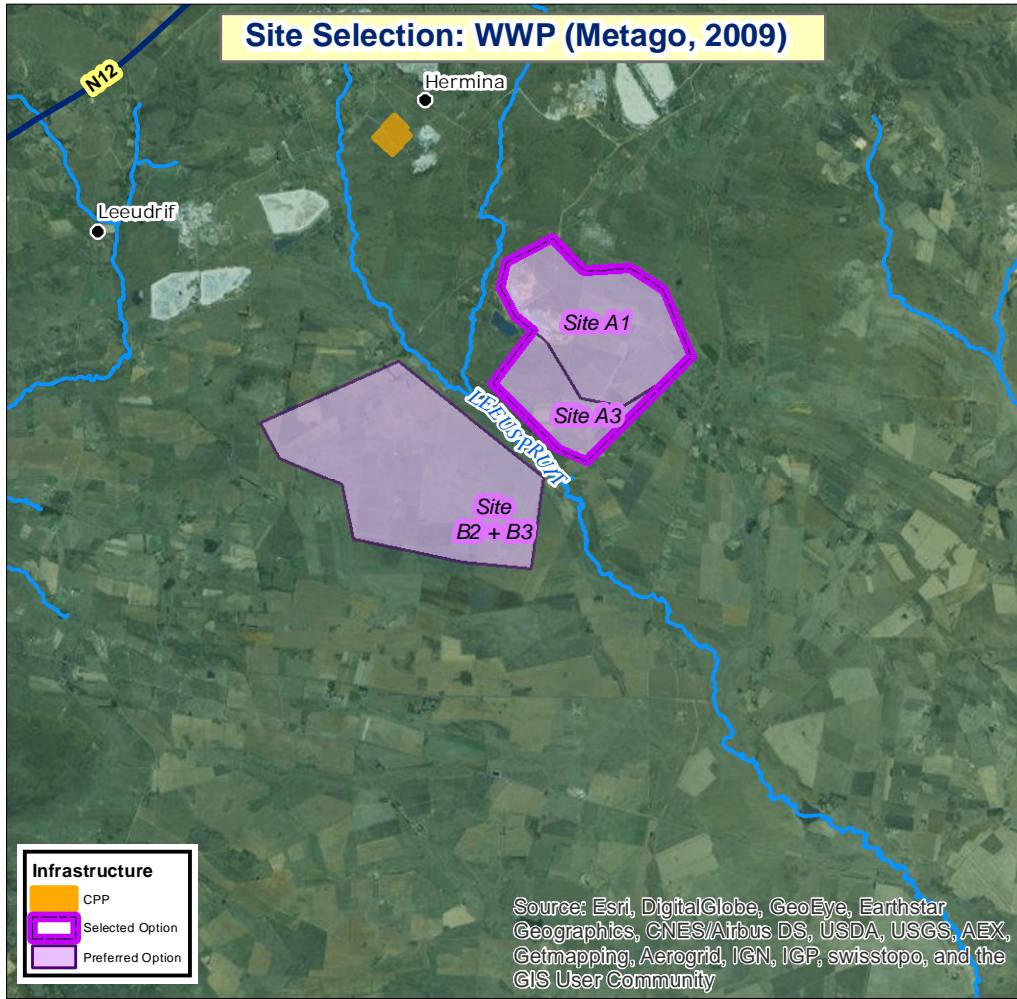



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RTSF Alternatives

Legend


- Settlement
- Arterial / National Route
- Perennial Stream

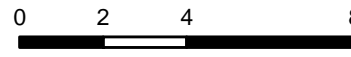



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Projection: Transverse Mercator Ref #: sdp.GOL2376.201508.200
 Datum: WGS 1984 Revision Number: 3
 Central Meridian: 27°E Date: 21/12/2015

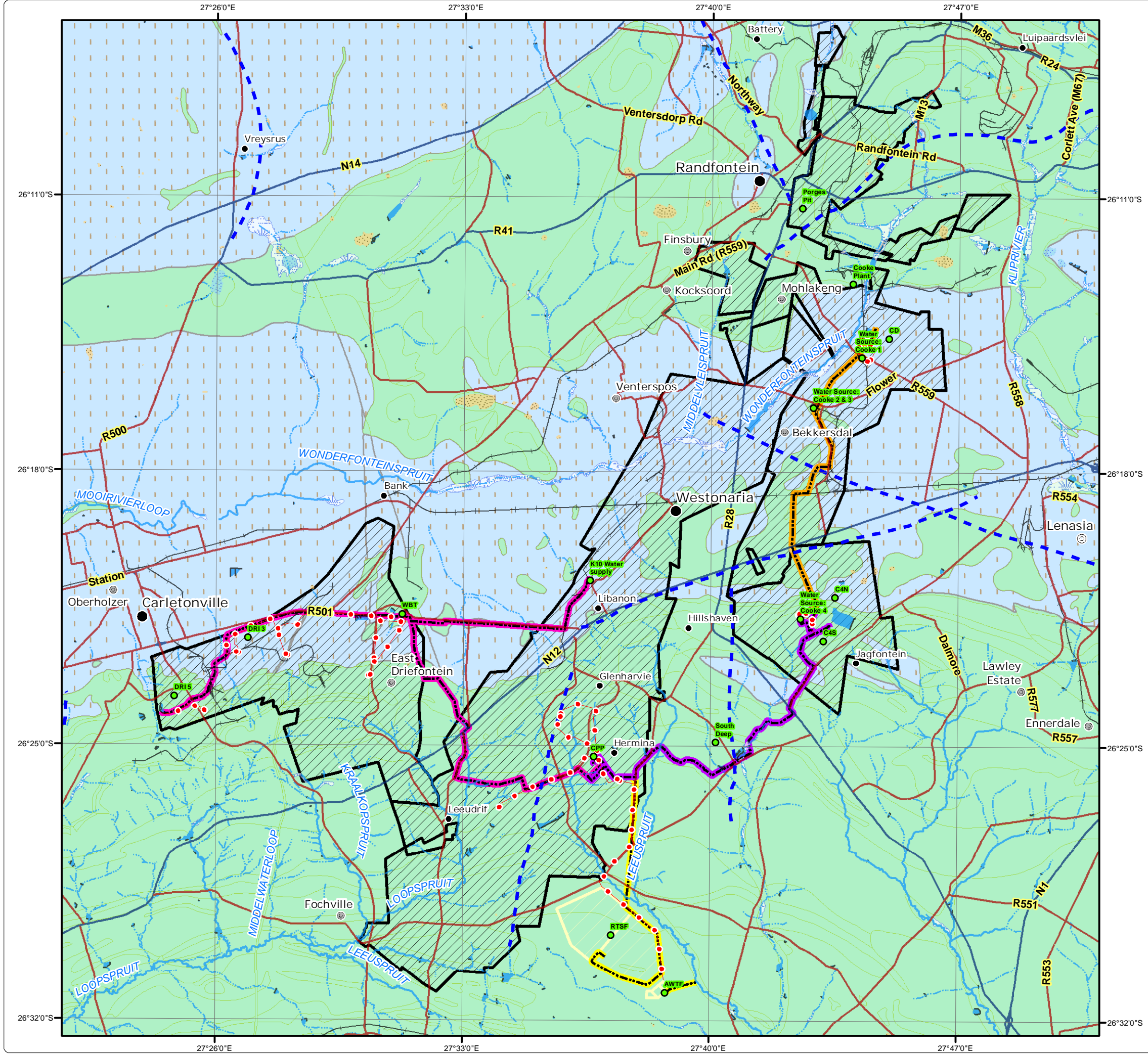



 0 2 4 8
 Kilometres
 1:180 000

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Sibanye WRTRP EIA

Regional Geology



Legend

- Major Town
- ⊙ Secondary Town
- ⊙ Other Town
- Settlement
- Arterial / National Route
- Main Road
- Railway Line
- Non-Perennial Stream
- Perennial Stream
- Dam Wall
- Dam / Lake
- Perennial Pan
- Non-Perennial Pan
- Wetland

Infrastructure

- Infrastructure Point
- Powerlines
- Pipelines: Kloof Mining Right
- Pipelines: Driefontein Mining Right
- Pipelines: Cooke Mining Right
- Pipelines: Ezulwini Mining Right
- Regional Tailings Storage Facility
- Mining Right Boundary

Geology

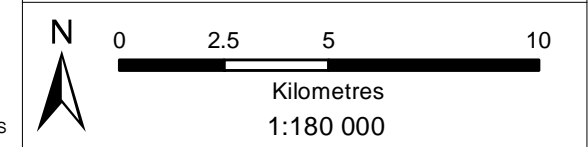
- Structures
- Dolomite
- Transvaal Rocks



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 Datum: WGS 1984 Revision Number: 3
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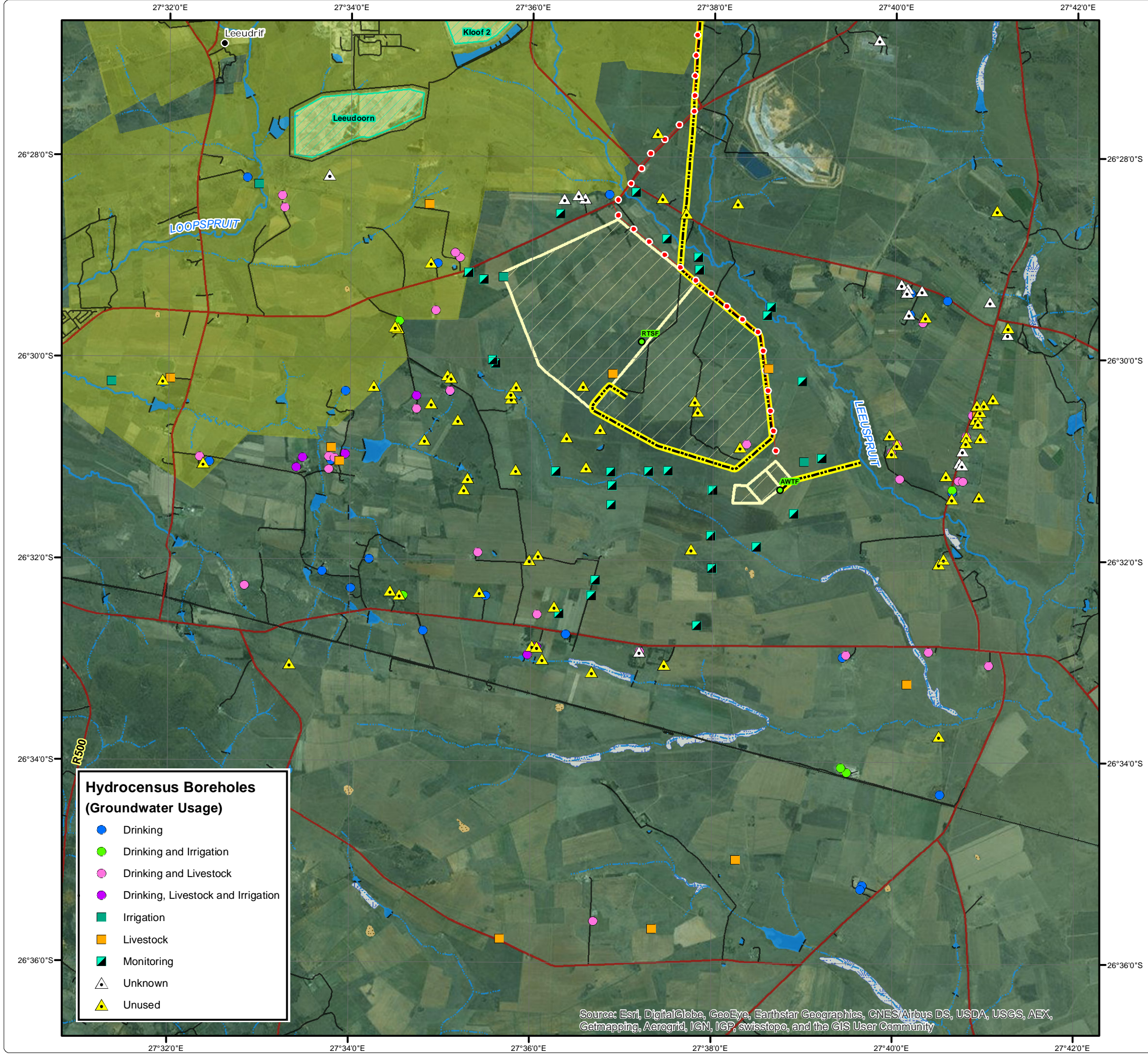


Sibanye WRTRP EIA Hydrocensus Boreholes and Groundwater Usage

Legend

- Settlement
 - Main Road
 - Minor Road
 - +— Railway Line
 - Non-Perennial Stream
 - Perennial Stream
 - Dam Wall
 - Dam / Lake
 - Non-Perennial Pan
 - Wetland
- ### Infrastructure
- Infrastructure Point
 - Powerlines
 - Pipelines: Kloof Mining Right
 - Regional Tailings Storage Facility
 - TSF Infrastructure
 - Kloof Mining Right

- ### Hydrocensus Boreholes (Groundwater Usage)
- Drinking
 - Drinking and Irrigation
 - Drinking and Livestock
 - Drinking, Livestock and Irrigation
 - Irrigation
 - Livestock
 - Monitoring
 - ▲ Unknown
 - ▲ Unused

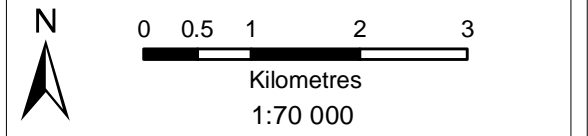


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



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 Datum: WGS 1984 Revision Number: 1
 Central Meridian: 27°E Date: 21/12/2015



Sibanye WRTRP EIA

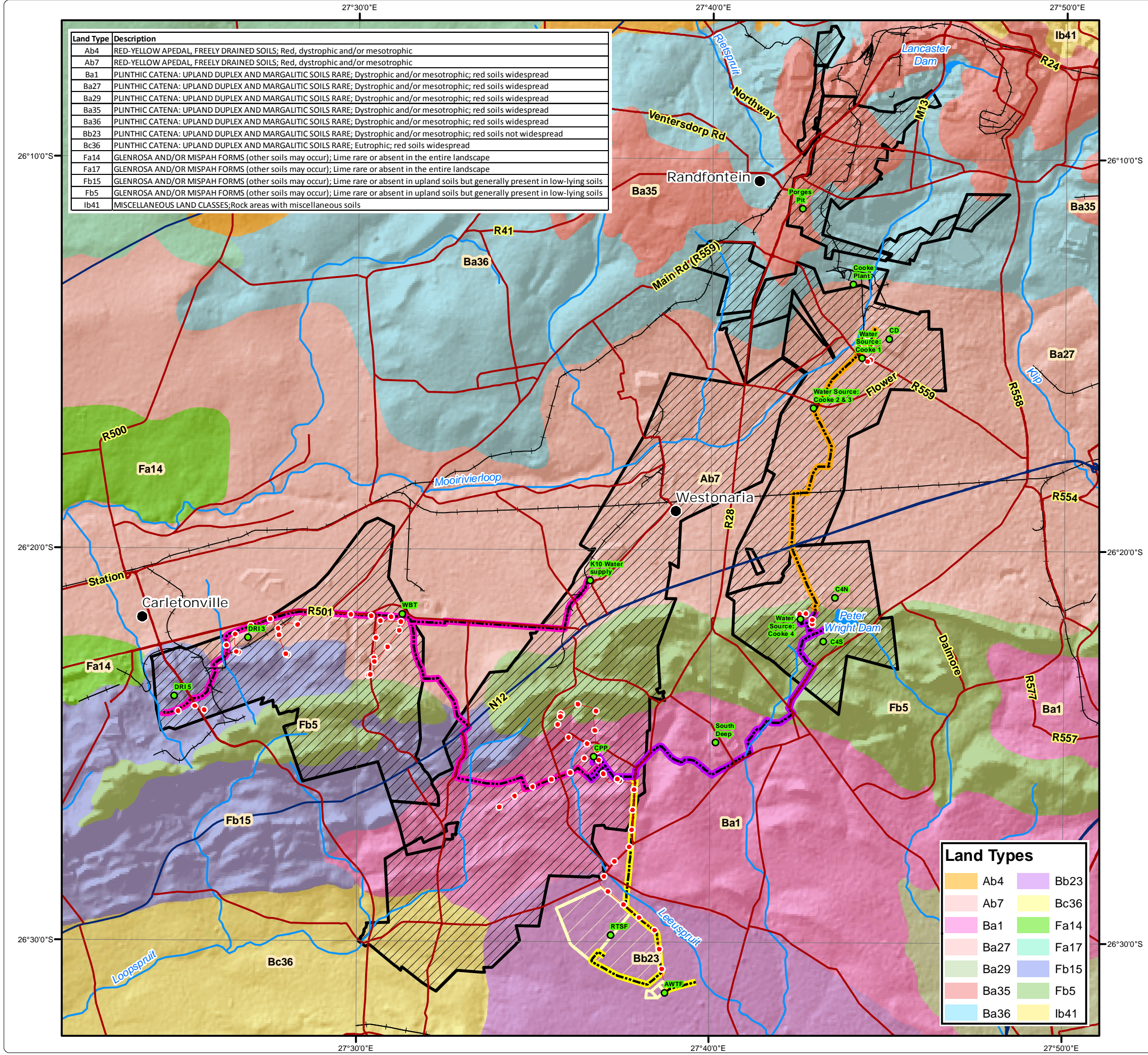
Land Types

Legend

- Major Town
- Main Roads
- National Roads
- River
- Railway Line
- Dam
- Infrastructure Point
- Powerlines
- Pipelines: Kloof Mining Right
- Pipelines: Driefontein Mining Right
- Pipelines: Cooke Mining Right
- Pipelines: Ezulwini Mining Right
- Regional Tailings Storage Facility
- Mining Right Boundary

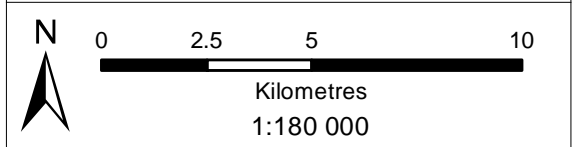
Land Types	
Ab4	Bb23
Ab7	Bc36
Ba1	Fa14
Ba27	Fa17
Ba29	Fb15
Ba35	Fb5
Ba36	Ib41

Land Type	Description
Ab4	RED-YELLOW APEDAL, FREELY DRAINED SOILS; Red, dystrophic and/or mesotrophic
Ab7	RED-YELLOW APEDAL, FREELY DRAINED SOILS; Red, dystrophic and/or mesotrophic
Ba1	PLINTHIC CATENA: UPLAND DUPLIX AND MARGALITIC SOILS RARE; Dystrophic and/or mesotrophic; red soils widespread
Ba27	PLINTHIC CATENA: UPLAND DUPLIX AND MARGALITIC SOILS RARE; Dystrophic and/or mesotrophic; red soils widespread
Ba29	PLINTHIC CATENA: UPLAND DUPLIX AND MARGALITIC SOILS RARE; Dystrophic and/or mesotrophic; red soils widespread
Ba35	PLINTHIC CATENA: UPLAND DUPLIX AND MARGALITIC SOILS RARE; Dystrophic and/or mesotrophic; red soils widespread
Ba36	PLINTHIC CATENA: UPLAND DUPLIX AND MARGALITIC SOILS RARE; Dystrophic and/or mesotrophic; red soils widespread
Bb23	PLINTHIC CATENA: UPLAND DUPLIX AND MARGALITIC SOILS RARE; Dystrophic and/or mesotrophic; red soils not widespread
Bc36	PLINTHIC CATENA: UPLAND DUPLIX AND MARGALITIC SOILS RARE; Eutrophic; red soils widespread
Fa14	GLENROSA AND/OR MISPAH FORMS (other soils may occur); Lime rare or absent in the entire landscape
Fa17	GLENROSA AND/OR MISPAH FORMS (other soils may occur); Lime rare or absent in the entire landscape
Fb15	GLENROSA AND/OR MISPAH FORMS (other soils may occur); Lime rare or absent in upland soils but generally present in low-lying soils
Fb5	GLENROSA AND/OR MISPAH FORMS (other soils may occur); Lime rare or absent in upland soils but generally present in low-lying soils
Ib41	MISCELLANEOUS LAND CLASSES; Rock areas with miscellaneous soils



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 Datum: WGS 1984 Revision Number: 3
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Land Capability

Land Capability
Klingebeil, A., & Montgomery, P. (1961)

- Class II: Intensive Cultivation
- Class III: Moderate Cultivation
- Class VI: Moderate Grazing

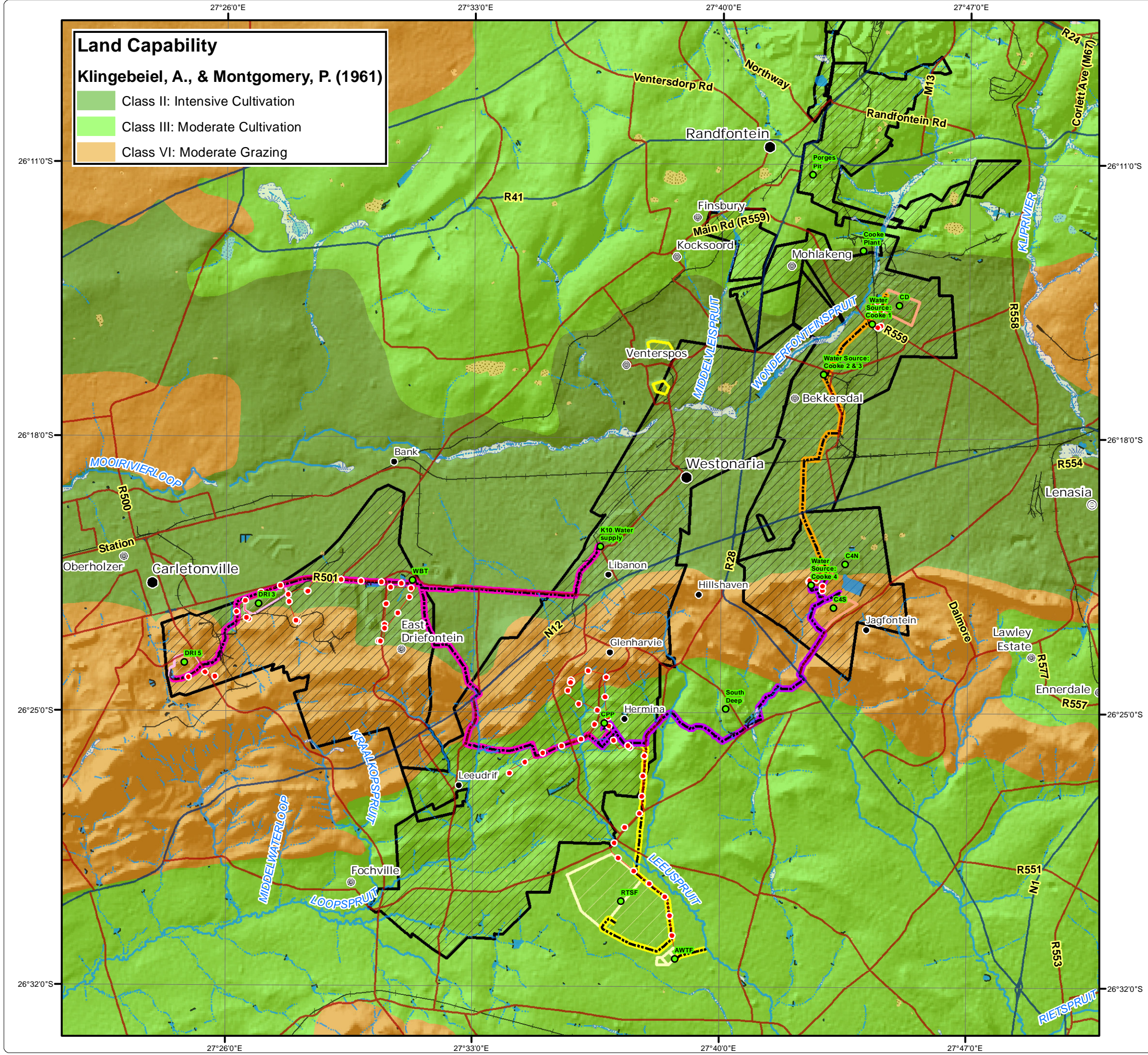
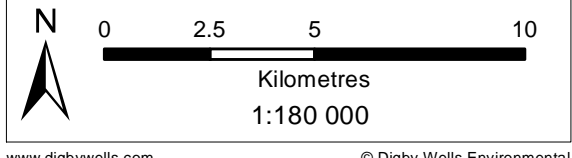
Legend

- Major Town
- Secondary Town
- Other Town
- Settlement
- Arterial / National Route
- Main Road
- Railway Line
- Non-Perennial Stream
- Perennial Stream
- Dam Wall
- Dam / Lake
- Perennial Pan
- Non-Perennial Pan
- Wetland
- Infrastructure**
- Infrastructure Point
- Powerlines
- Pipelines: Kloof Mining Right
- Pipelines: Driefontein Mining Right
- Pipelines: Cooke Mining Right
- Pipelines: Ezulwini Mining Right
- Regional Tailings Storage Facility
- TSF within Kloof Mining Right
- TSF within Driefontein Mining Right
- TSF within Cooke Mining Right
- Mining Right Boundary



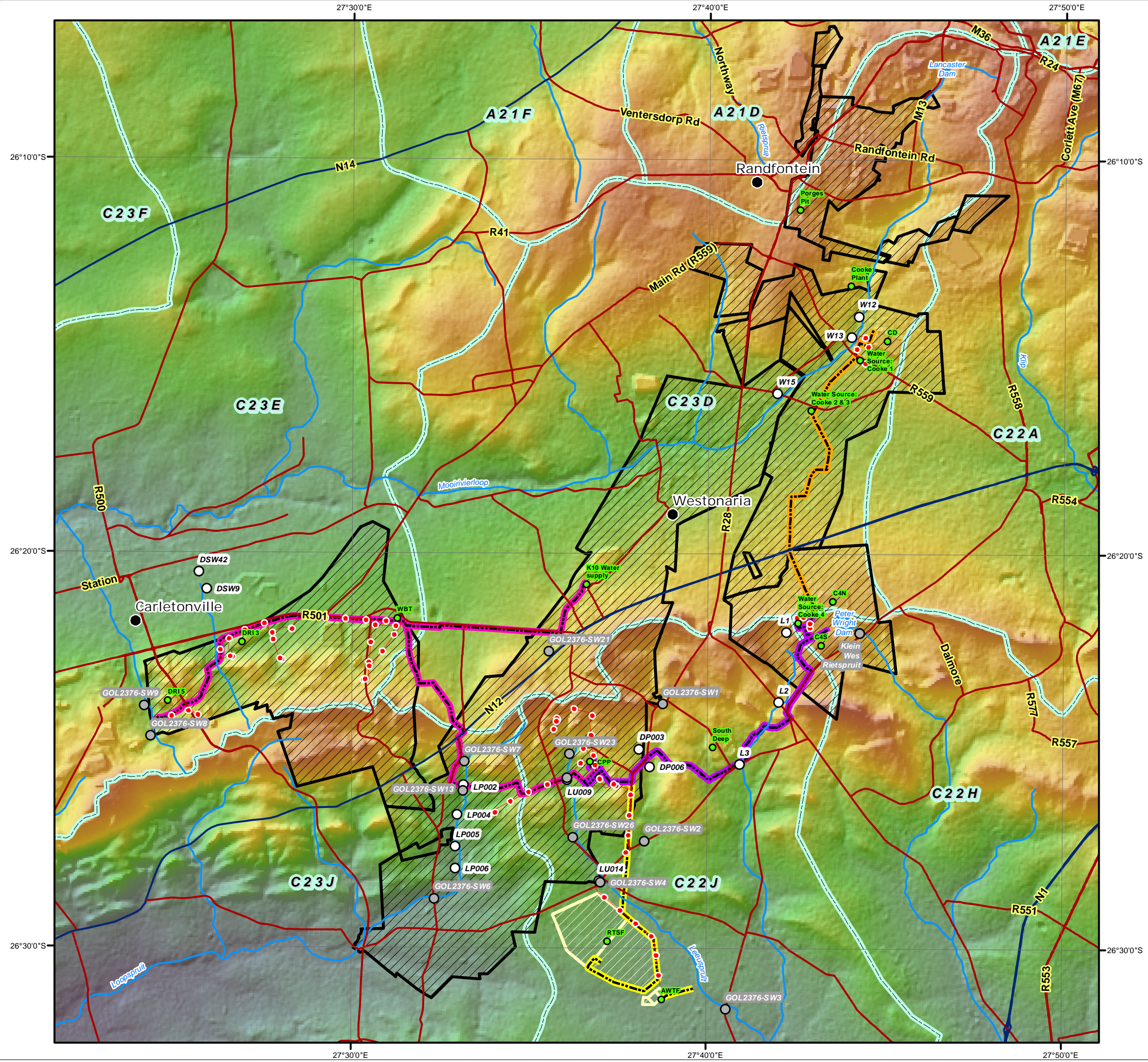
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 Datum: WGS 1984 Revision Number: 3
 Central Meridian: 27°E Date: 07/12/2015



Sibanye WRTRP EIA

Quaternary Catchments and Monitoring Locations



Legend

- Major Town
- Main Roads
- National Roads
- River
- Dam
- Quaternary Catchment Boundary

Water Quality Monitoring

- Sibanye
- Digby Wells

Infrastructure

- Infrastructure Point
- Powerlines
- Regional Tailings Storage Facility
- Pipelines: Kloof Mining Right
- Pipelines: Driefontein Mining Right
- Pipelines: Cooke Mining Right
- Pipelines: Ezulwini Mining Right
- ▨ Mining Right Boundary

Topography Model

Elevation (m.a.s.l.)

High : 1838
Low : 1395



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Projection: Transverse Mercator Ref #: sdp.GOL2376.201508.207
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