












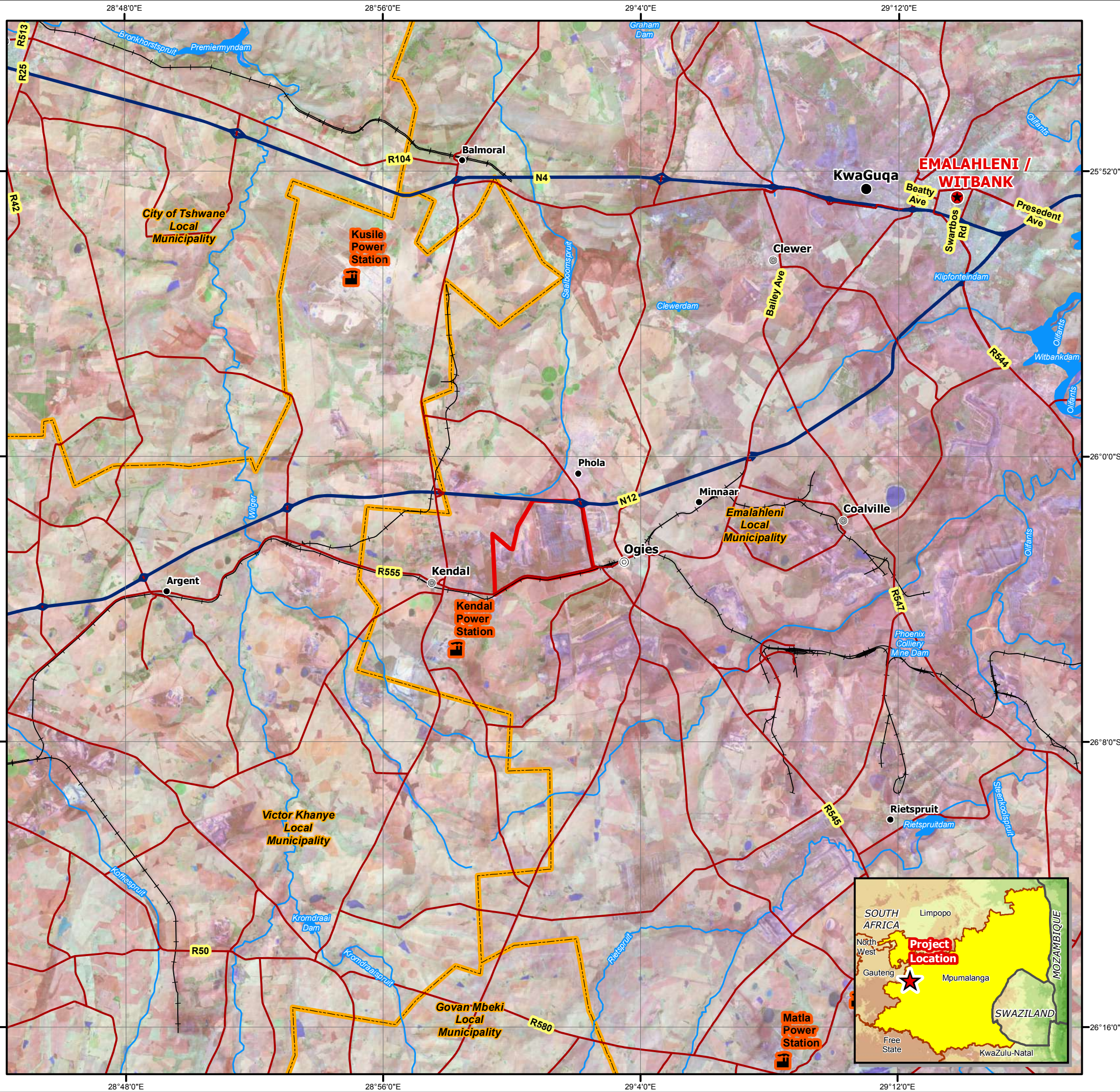



# Klipspruit Water Treatment Plant Regional Setting

## Legend


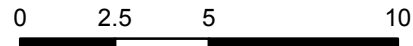
-  Project Area
-  City
-  Major Town
-  Secondary Town
-  Other Town
-  Settlement
-  Power Station
-  Main Road
-  Arterial / National Route
-  Railway Line
-  Perennial Stream
-  Dam
-  Local Municipal Boundary



  
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Projection: Transverse Mercator	Ref #: ajm.SOU5014.201805.099
Datum: WGS 1994	Revision Number: 1
Central Meridian: 29°E	Date: 11/05/2018

0 2.5 5 10  
Kilometres  
1:200 000

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# Klipspruit Colliery Water Treatment Plant

## Land Type

### Legend

- Project Area
- Secondary Town
- Other Town
- Settlement
- Power Line
- Arterial / National Route
- Main Road
- Minor Road
- Track
- Railway Line
- Non-Perennial Stream
- Perennial Stream
- Dam Wall
- Dam / Lake
- Non-Perennial Pan / Stream
- Perennial Pan
- Wetland
- Proposed Infrastructure**
- Discharge Line (Option 1)
- Discharge Line (Option 2)
- Feed Water Line to KPS WTP
- Infrastructure Areas
- Temporary Laydown Area

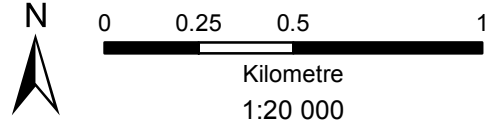
Land Type	
landtype	
	Ba4
	Bb13

Land Type	Description
Ba4	PLINTHIC CATENA: UPLAND DUPLEX AND MARGALITIC SOILS RARE; Dystrophic and/or mesotrophic; red soils widespread
Bb13	PLINTHIC CATENA: UPLAND DUPLEX AND MARGALITIC SOILS RARE; Dystrophic and/or mesotrophic; red soils not widespread



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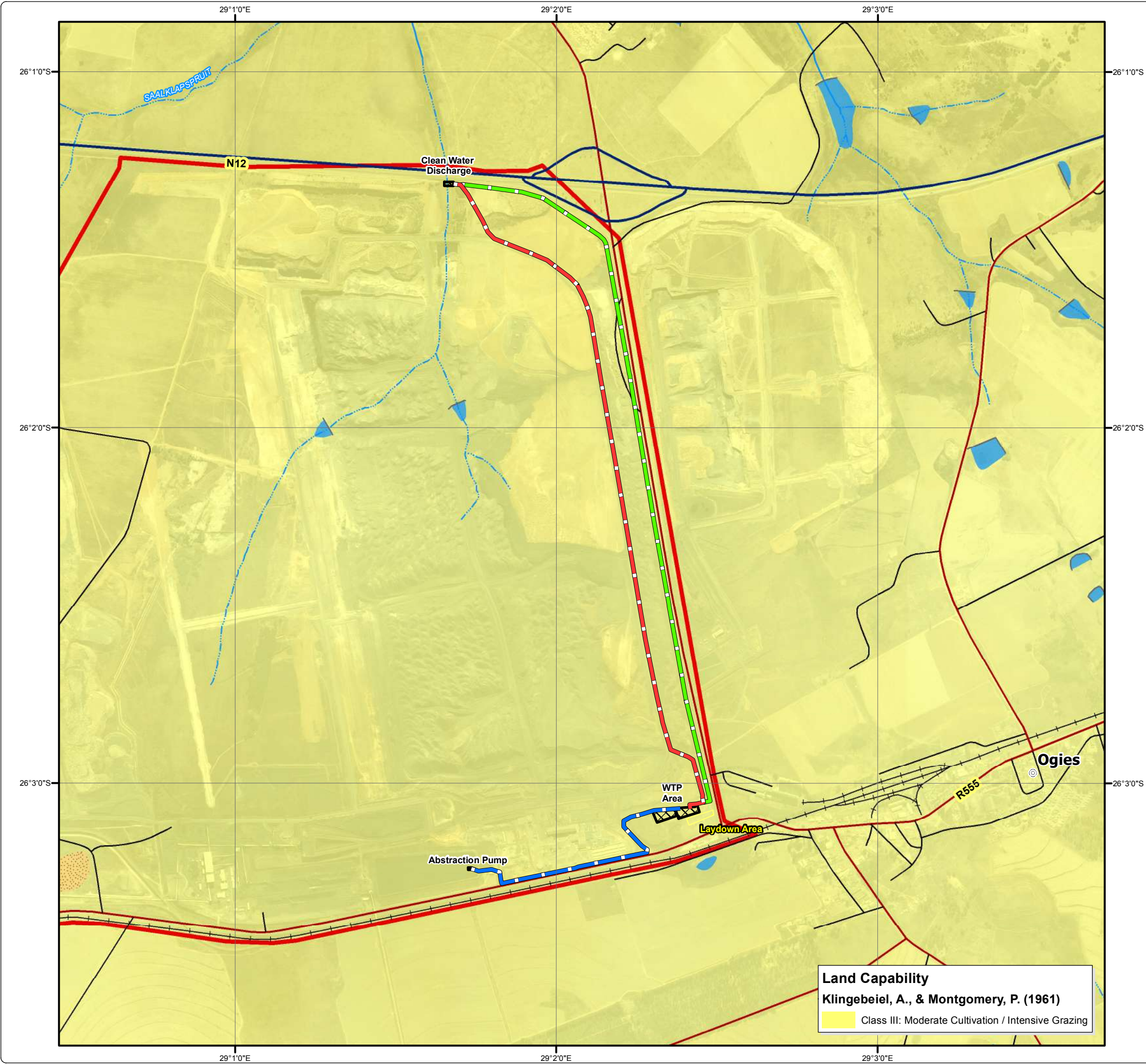
Projection: Transverse Mercator      Ref #: ajm.SOU5014.201806.004  
 Datum: WGS 1984                          Revision Number: 1  
 Central Meridian: 29°E                      Date: 05/06/2018



# Klipspruit Colliery Water Treatment Plant Land Capability

### Legend

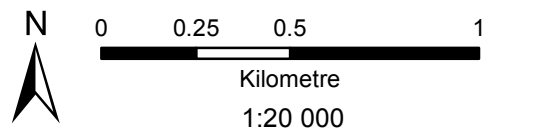
- Project Area
- Secondary Town
- Other Town
- Settlement
- Power Line
- Arterial / National Route
- Main Road
- Minor Road
- Track
- Railway Line
- Non-Perennial Stream
- Perennial Stream
- Dam Wall
- Dam / Lake
- Non-Perennial Pan / Stream
- Perennial Pan
- Wetland
- Proposed Infrastructure**
- Discharge Line (Option 1)
- Discharge Line (Option 2)
- Feed Water Line to KPS WTP
- Infrastructure Areas
- Temporary Laydown Area



**Land Capability**  
 Klingebiel, A., & Montgomery, P. (1961)  
 Class III: Moderate Cultivation / Intensive Grazing



Projection: Transverse Mercator      Ref #: ajm.SOU5014.201806.005  
 Datum: WGS 1984      Revision Number: 1  
 Central Meridian: 29°E      Date: 05/06/2018



# Klipspruit Colliery Water Treatment Plant

## Land Use

### Legend

- Project Area
  - Secondary Town
  - Other Town
  - Settlement
  - Power Line
  - Arterial / National Route
  - Main Road
  - Minor Road
  - Track
  - Railway Line
  - Non-Perennial Stream
  - Perennial Stream
  - Dam Wall
  - Dam / Lake
  - Non-Perennial Pan / Stream
  - Perennial Pan
  - Wetland
- Proposed Infrastructure**
- Discharge Line (Option 1)
  - Discharge Line (Option 2)
  - Feed Water Line to KPS WTP
  - Infrastructure Areas
  - Temporary Laydown Area

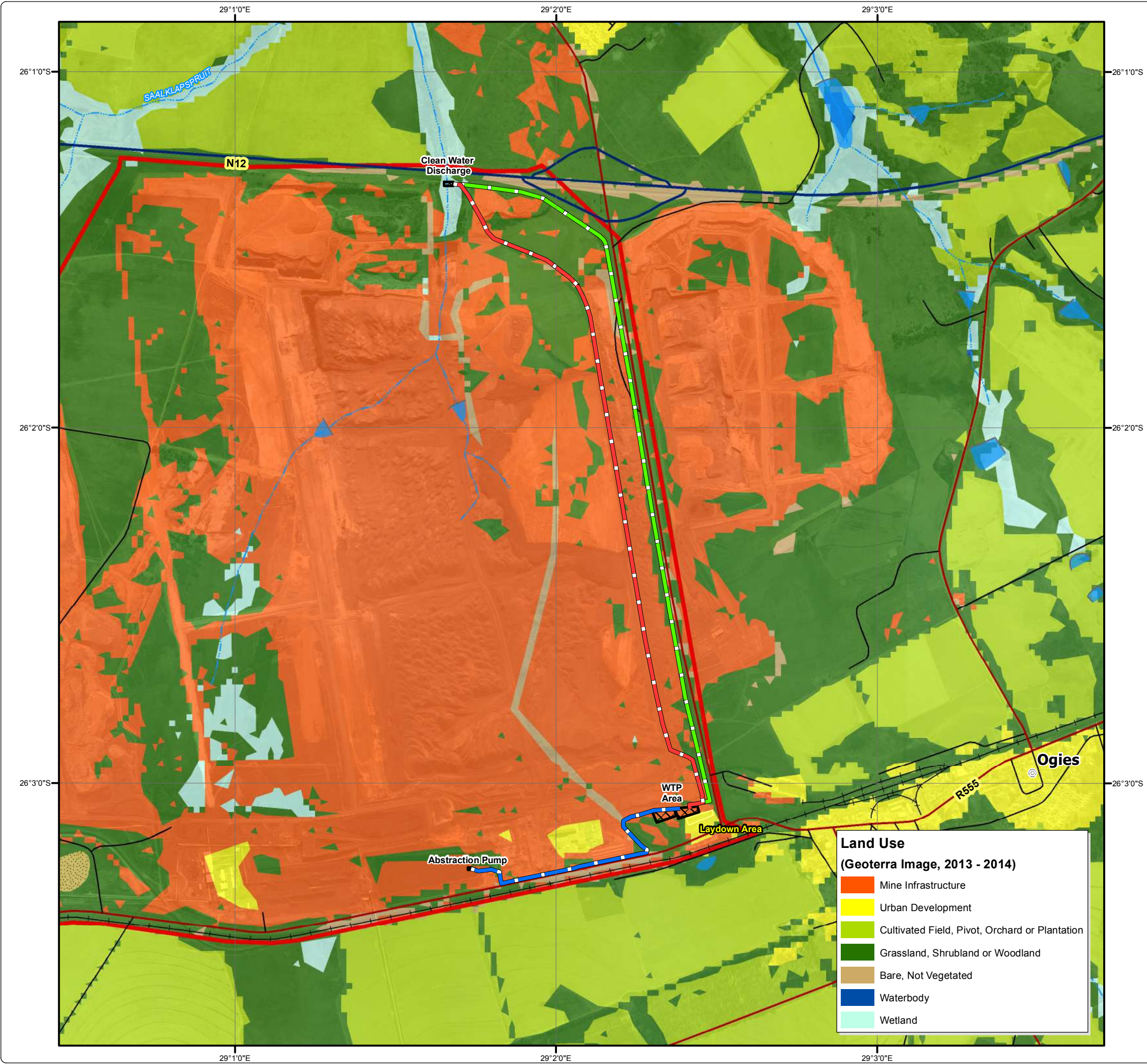
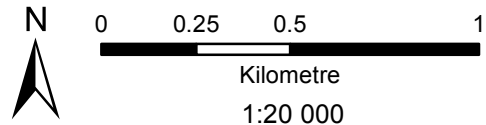
**Land Use**  
(Geoterra Image, 2013 - 2014)

- Mine Infrastructure
- Urban Development
- Cultivated Field, Pivot, Orchard or Plantation
- Grassland, Shrubland or Woodland
- Bare, Not Vegetated
- Waterbody
- Wetland



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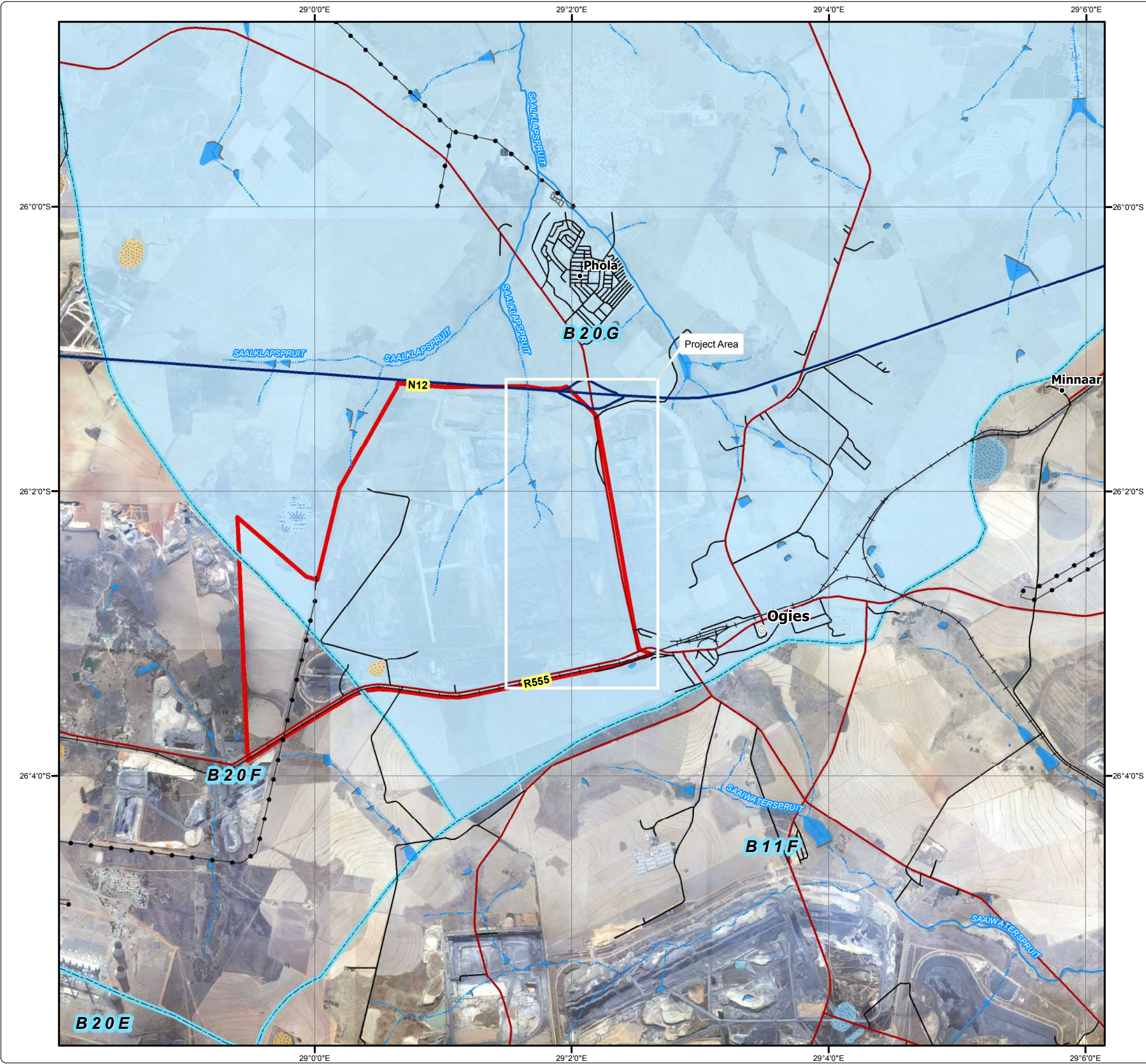
Projection: Transverse Mercator      Ref #: ajm.SOU5014.201806.006  
 Datum: WGS 1984                              Revision Number: 1  
 Central Meridian: 29°E                        Date: 05/06/2018



# Klipspruit Colliery Water Treatment Plant Hydrological Setting

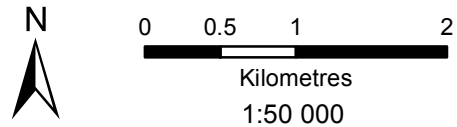
### Legend

- Project Area
- Secondary Town
- Other Town
- Settlement
- Power Line
- Arterial / National Route
- Main Road
- Minor Road
- Track
- Railway Line
- Non-Perennial Stream
- Perennial Stream
- Dam Wall
- Dam / Lake
- Non-Perennial Pan / Stream
- Perennial Pan
- Wetland
- Quaternary Catchment
- Affected Catchment



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 Datum: WGS 1984                              Revision Number: 1  
 Central Meridian: 29°E                        Date: 05/06/2018



# Klipspruit Colliery Water Treatment Plant Surface Water Sampling Locations

### Legend

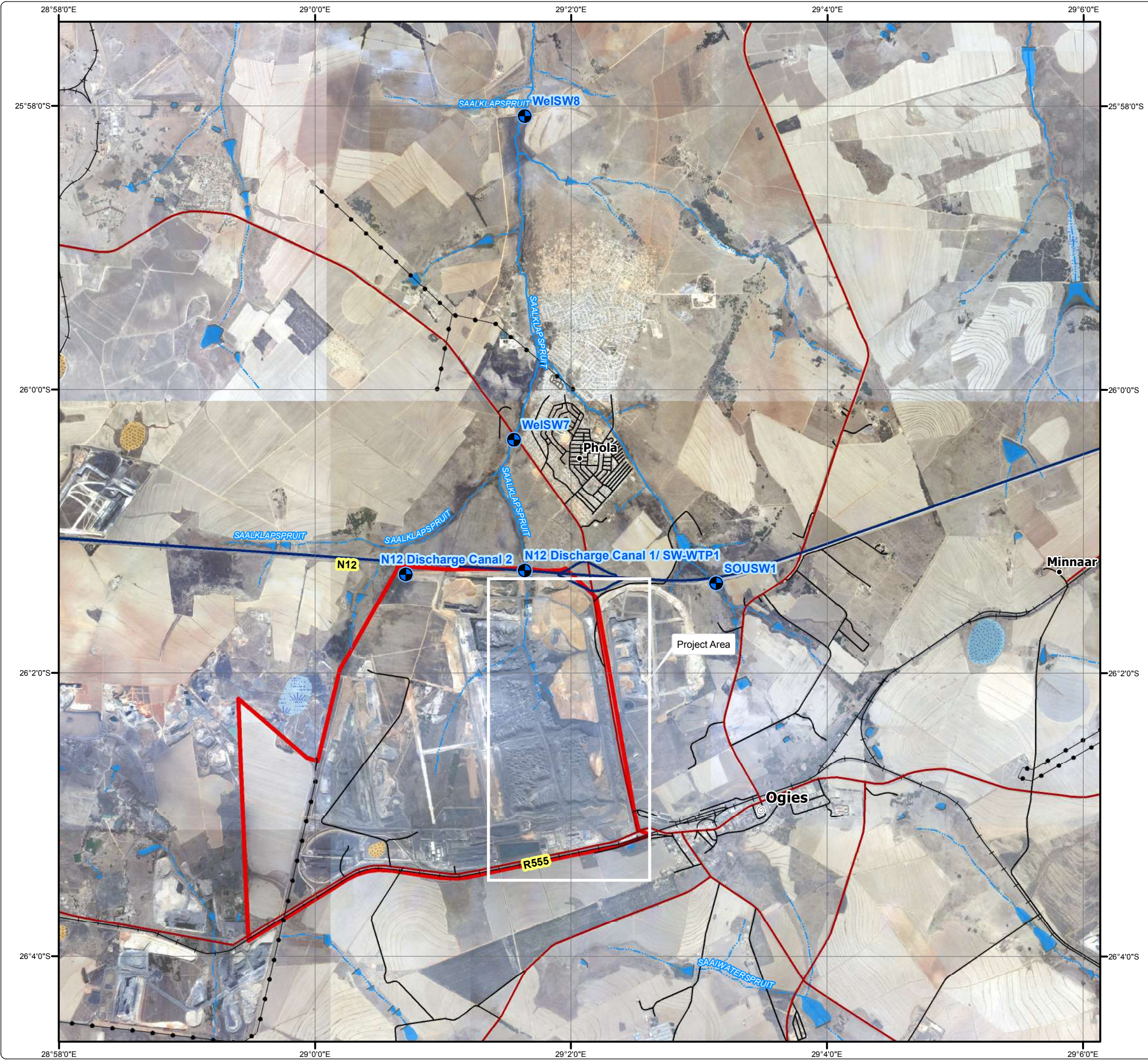
- Project Area
- Surface Water Monitoring Points
- Secondary Town
- Other Town
- Settlement
- Power Line
- Arterial / National Route
- Main Road
- Minor Road
- - - Track
- + + + Railway Line
- - - Non-Perennial Stream
- Perennial Stream
- Dam Wall
- Dam / Lake
- Non-Perennial Pan / Stream
- Perennial Pan
- Wetland



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 Datum: WGS 1984                              Revision Number: 1  
 Central Meridian: 29°E                        Date: 05/06/2018





# Klipspruit Colliery Water Treatment Plant Groundwater Flow and Direction

### Legend

- Project Area
- Secondary Town
- Other Town
- Settlement
- Power Line
- Arterial / National Route
- Main Road
- Minor Road
- Track
- Railway Line
- Non-Perennial Stream
- Perennial Stream
- Dam Wall
- Dam / Lake
- Non-Perennial Pan / Stream
- Perennial Pan
- Wetland

Flow Direction

**Groundwater Flow**  
(m.a.m.s.l.)

High : 1591

Low : 1501



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Projection: Transverse Mercator      Ref #: ajm.SOU5014.201806.009  
 Datum: WGS 1984                              Revision Number: 1  
 Central Meridian: 29°E                        Date: 05/06/2018

