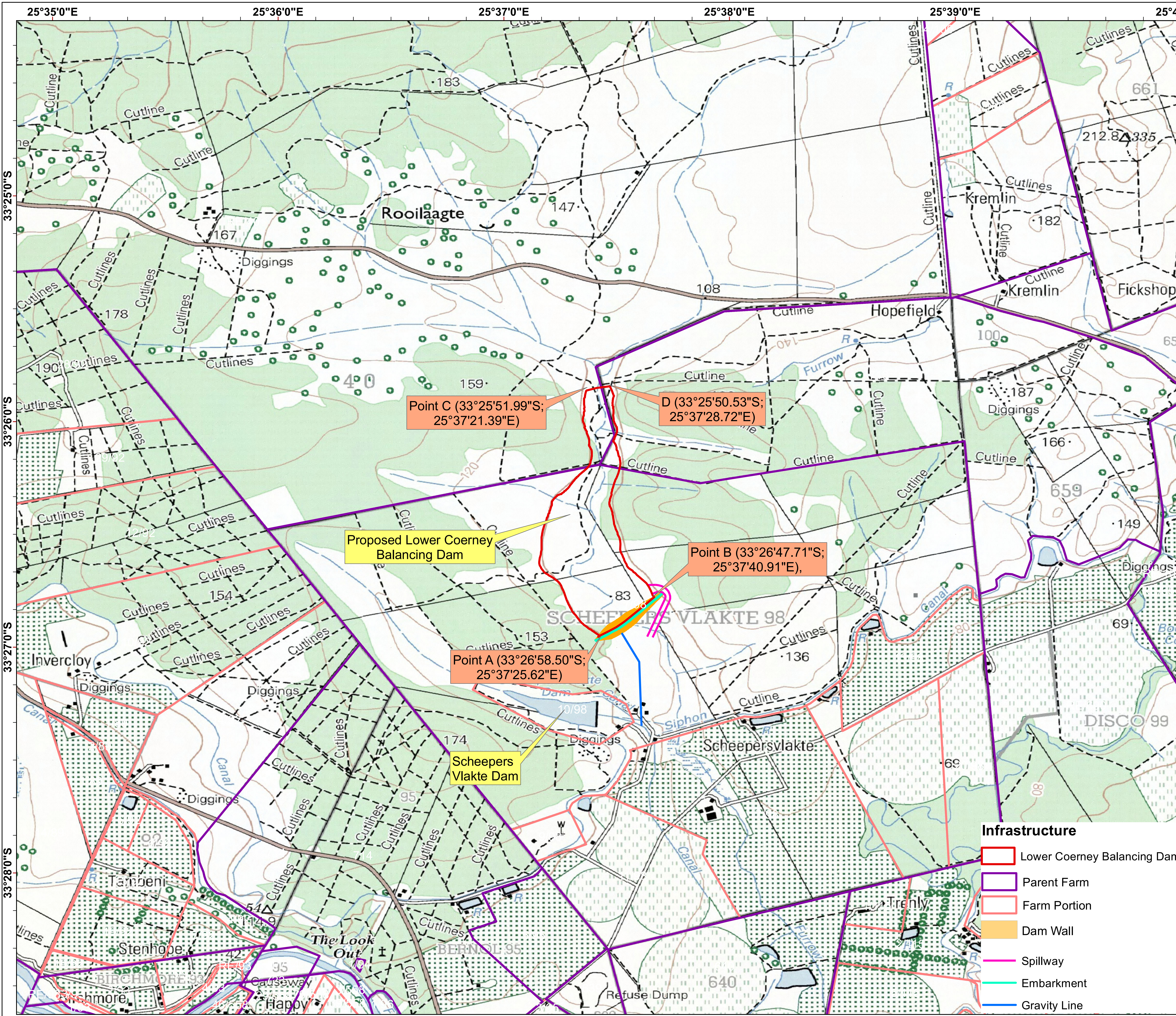


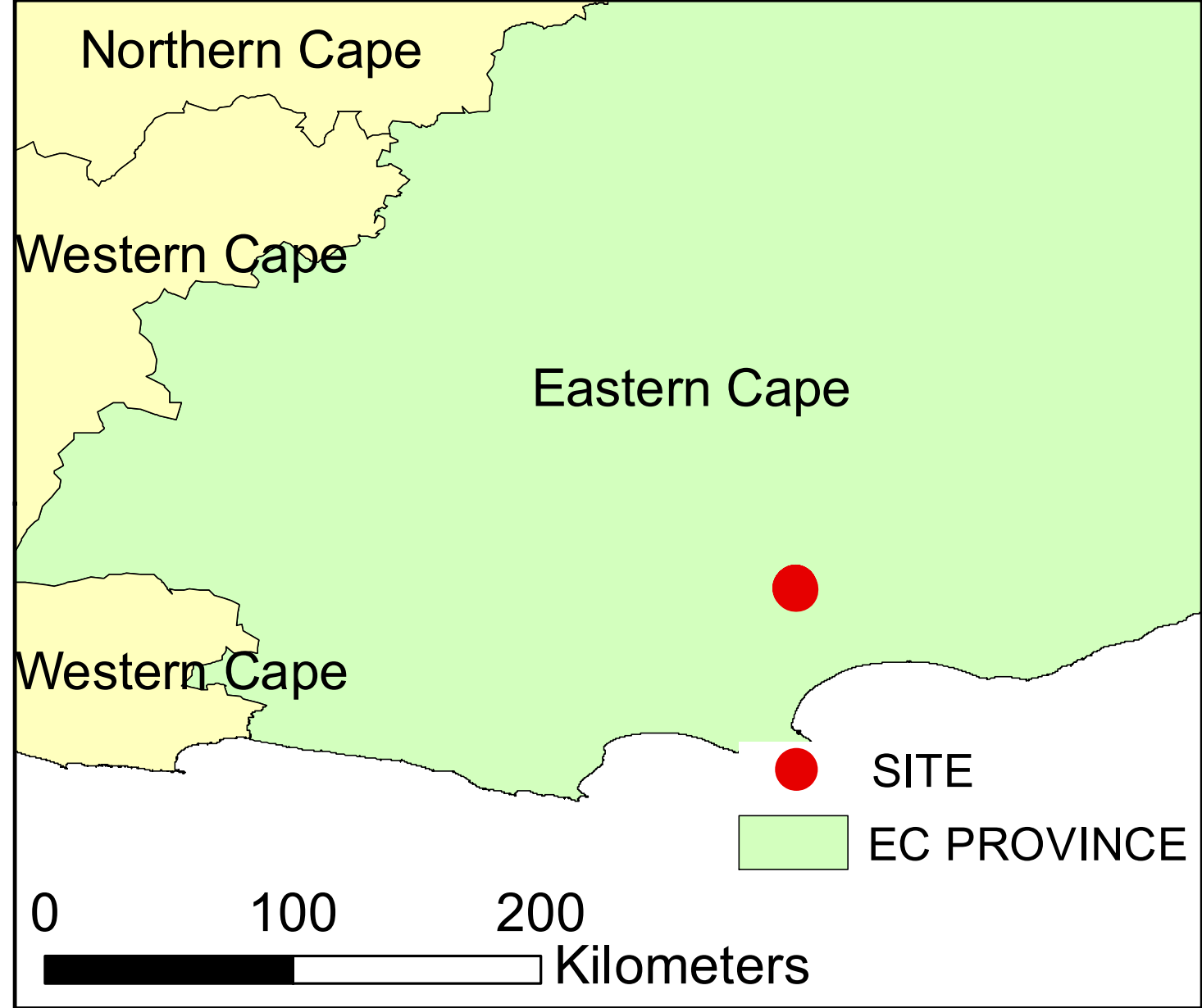




ALGOA WATER SUPPLY COERNEY BALANCING DAM

water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



Northern Cape
Western Cape
Eastern Cape
Western Cape

0 100 200 Kilometers

SITE
EC PROVINCE

LOCALITY MAP

National Freeway; National Route.....	
Arterial Route.....	
Main Road.....	
Secondary Road; Bench Mark.....	
Other Road; Bridge.....	
Track and Hiking Trail.....	
Railway; Station or Siding.....	
Other Railway; Tunnel.....	
Embankment; Cutting.....	
Power Line.....	
Buildings; Ruin.....	
Post Office; Police Station; Store.....	
Place of Worship; School; Hotel.....	
Fence; Wall.....	
Windpump; Monument.....	
Communication Tower.....	
Mine Dump; Excavation.....	
Trigonometrical Station; Marine Beacon.....	
Lighthouse and Marine Light.....	
Cemetery; Grave.....	
International Boundary and Beacon.....	
Provincial Boundary.....	
Protected Area.....	
Perennial River.....	
Perennial Water.....	
Non-perennial River.....	
Non-Perennial Water.....	
Dry Water Course.....	
Dry Pan.....	
Marsh and Vlei.....	
Pipeline (above ground).....	
Water Tower; Reservoir; Water Point.....	
Coastal Rocks.....	
Prominent Rock Outcrop.....	
Erosion; Sand.....	
Woodland.....	
Cultivated Land.....	
Orchard or Vineyard.....	
Recreation Ground.....	
Row of Trees.....	

Infrastructure

- Lower Coerney Balancing Dam
- Parent Farm
- Farm Portion
- Dam Wall
- Spillway
- Embankment
- Gravity Line

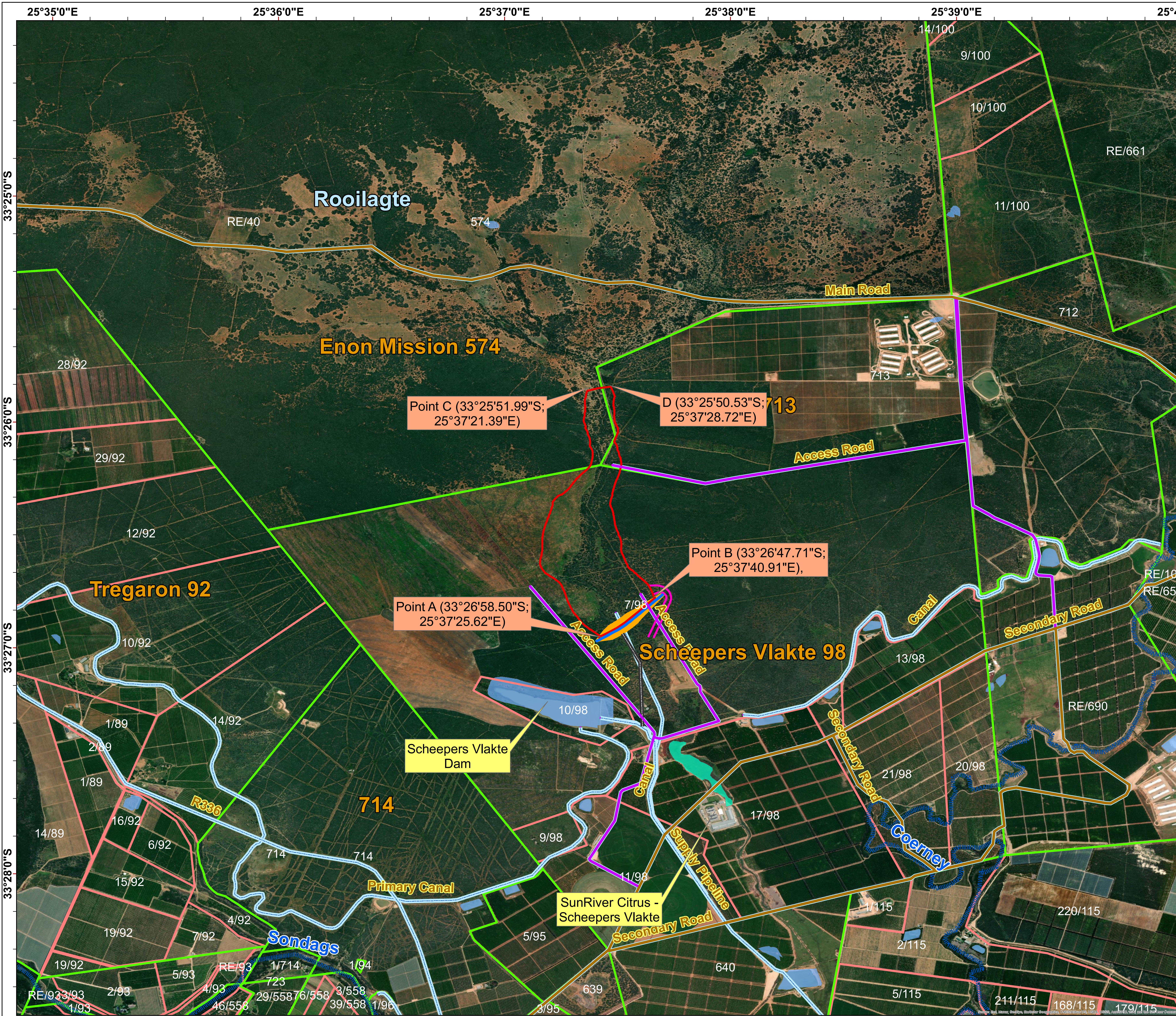
Sources: Chief Surveyor General, ESRI
South Africa & Project Team

0 750 1,500 Meters

Projection: WGS_84
Author: Vukosi Mabunda (March 2023)

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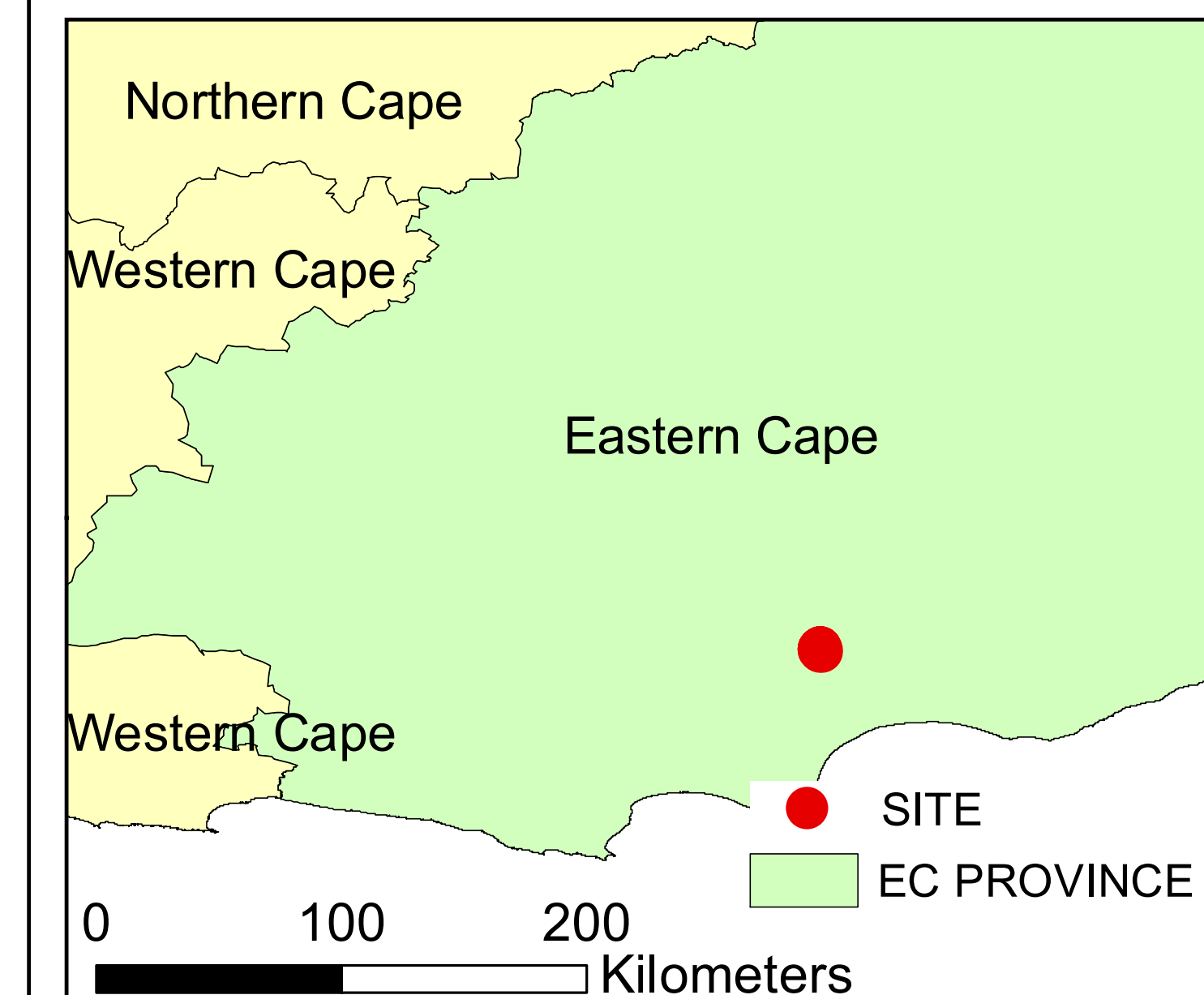


ALGOA WATER SUPPLY COERNEY BALANCING DAM



water & sanitation

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Water and Sanitation
REPUBLIC OF SOUTH AFRICA



LOCALITY MAP

-  Proposed Coerney Dam
 Parent Farm
 Farm Portion

Transport Network

- Roads
- Access Road

Infrastructure

- Supply Pipeline
- Gravity Connecting Pipeline
- Primary Canal
- Canal
- Spillway
- Embarkment
- Dam Wall

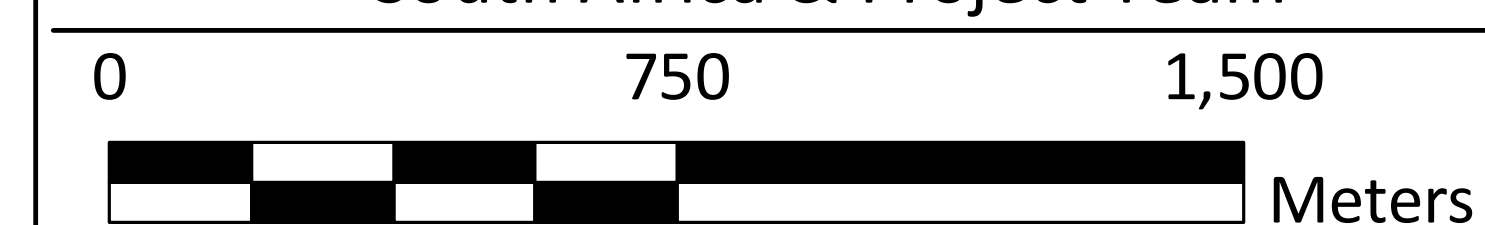
NBA 2018 Rivers

- NBA 2018 River

NBA 2018 Wetlands Map

- Channel Valley Bottom
Artificial Wetland

Sources: Chief Surveyor General, ESRI
South Africa & Project Team



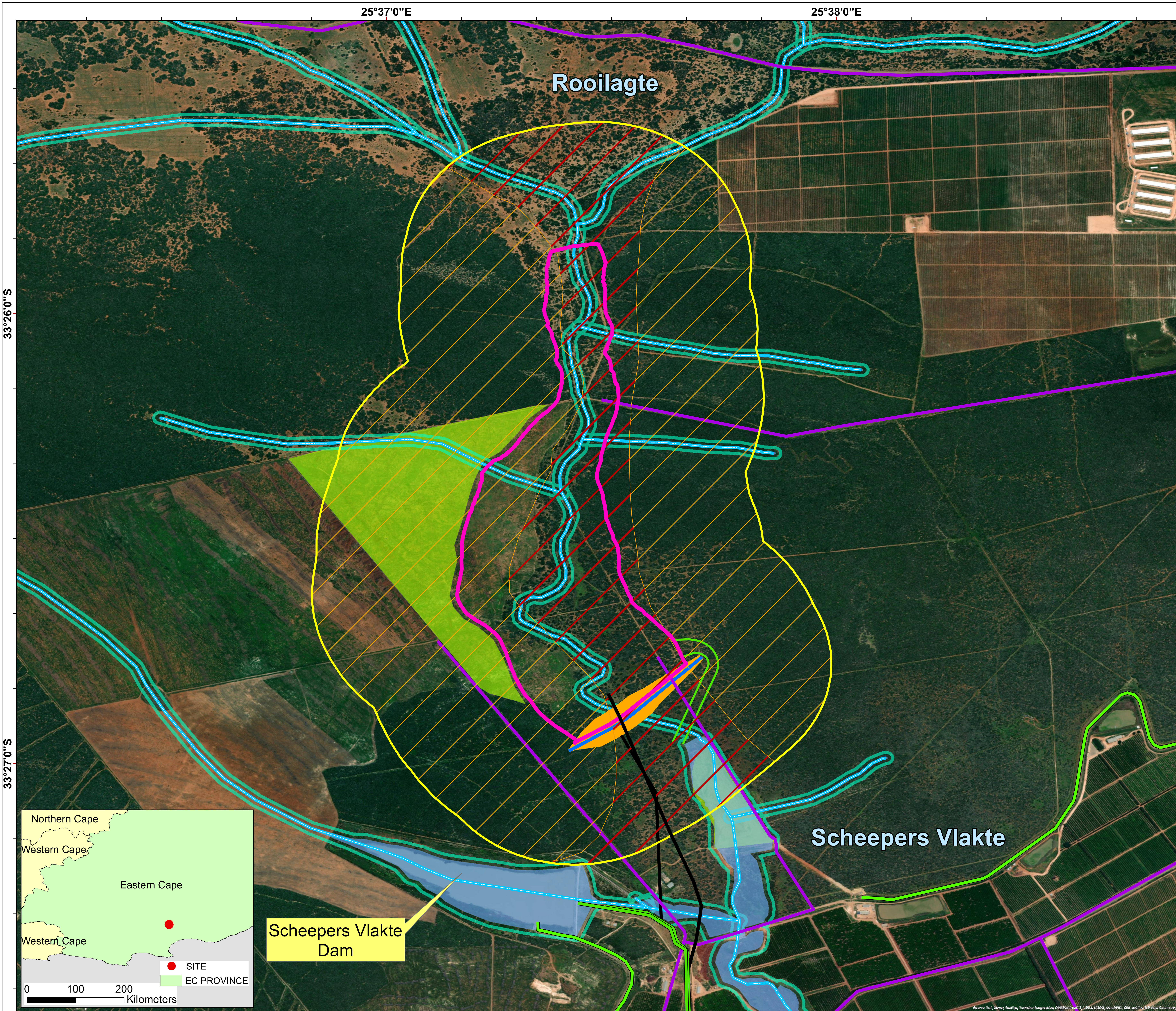
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ALGOA WATER SUPPLY COERNEY BALANCING DAM



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SENSITIVITY MAP

- Access Road (Gravel)
- Proposed Coerney Dam
- Site 500m Buffer
- Potential Laydown Area

Infrastructure

- Canal
- Gravitational Pipeline
- Spillway
- Embarkment
- Dam Wall

Aquatic Biodiversity

- channels
- 18m Buffer Zone
- Riparian Areas

Terrestrial Biodiversity

- High Sensitivity (Natural)
- Medium Sensitivity (Transformed)

Sources: Chief Surveyor General, ESRI South Africa, CGS, SANBI, DEFF & Project Team

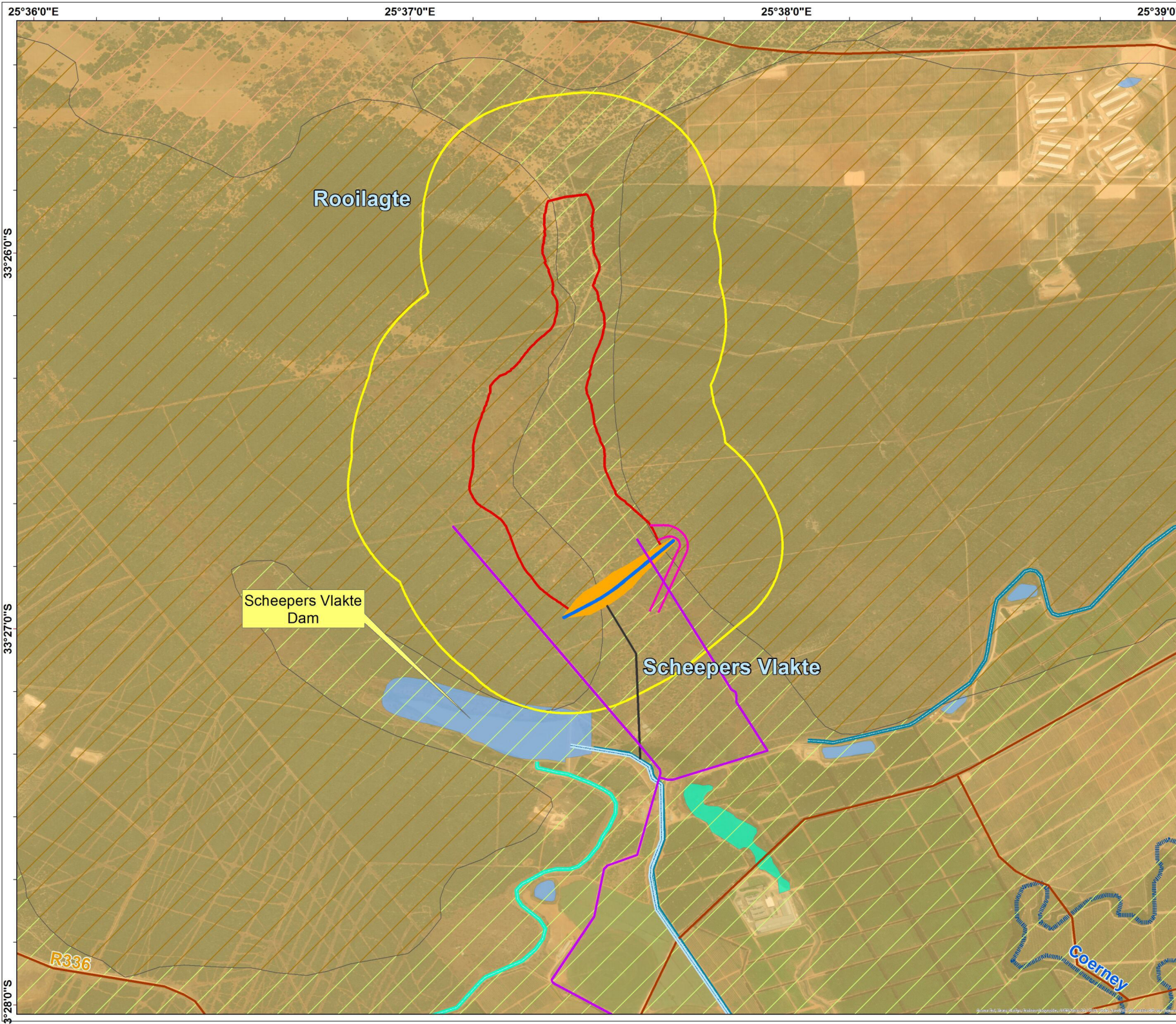


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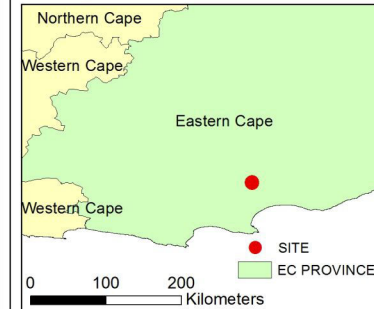


ALGOA WATER SUPPLY COERNEY BALANCING DAM



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SENSITIVITY MAP

- Proposed Coerney Dam
- Roads
- Access Road (Gravel)
- Critical Biodiversity Area
- Infrastructure**
 - Gravity Connecting Pipeline
 - Supply Pipeline
 - Primary Canal
 - Canal
 - Embarkment
 - Spillway
 - Dam Wall

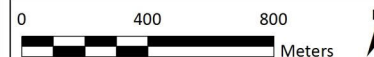
National Vegetation 2018

- Albany Alluvial Vegetation (EN)
- Koedoeskloof Karroid Thicket (LC)
- Sundays Valley Thicket (LC)

Hydrology

- NBA2018 Rivers
- NBA2018 Artificial Wetland
- NBA 2018 Channel Valley Bottom
- Dam 500m Buffer

Sources: Chief Surveyor General, ESRI
South Africa, CGS, SANBI, DEFF & Project Team

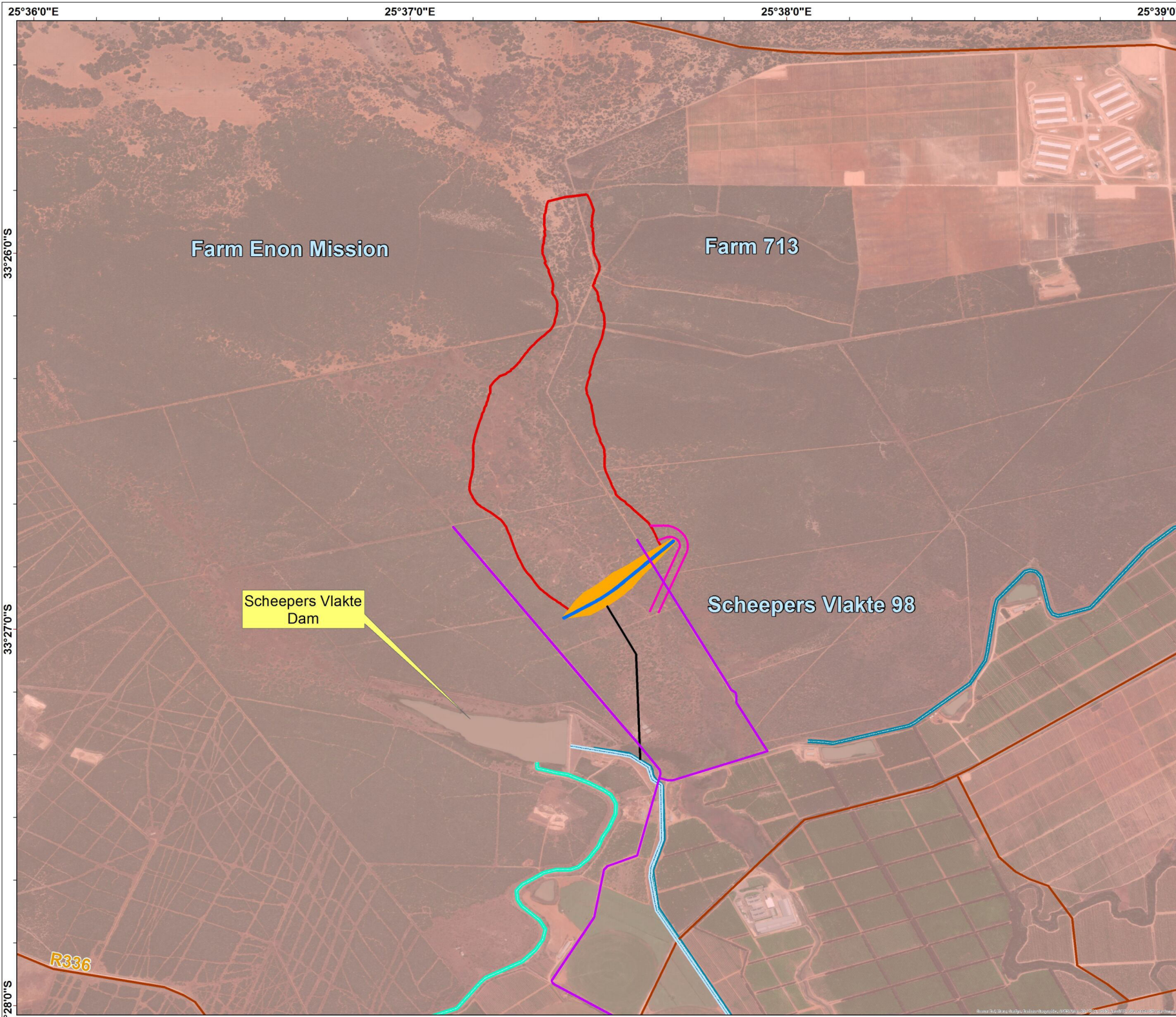


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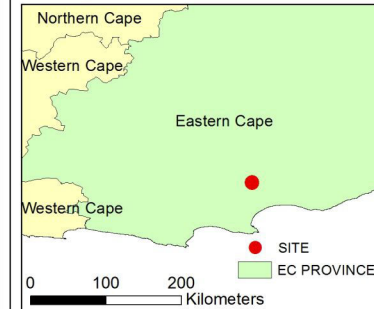


ALGOA WATER SUPPLY COERNEY BALANCING DAM



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EASTERN CAPE BIODIVERSITY CONSERVATION PLAN

Proposed Coerney Dam

Roads

Access Road (Gravel)

Infrastructure

Gravity Connecting Pipeline

Supply Pipeline

Primary Canal

Canal

Embarkment

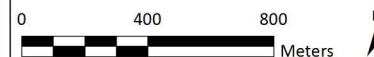
Spillway

Dam Wall

ECBCP

Critical Biodiversity Area

Sources: Chief Surveyor General, ESRI
South Africa, CGS, SANBI, DEFF & Project Team



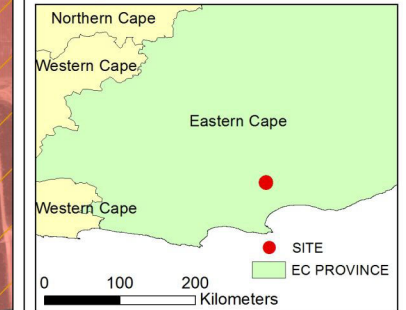
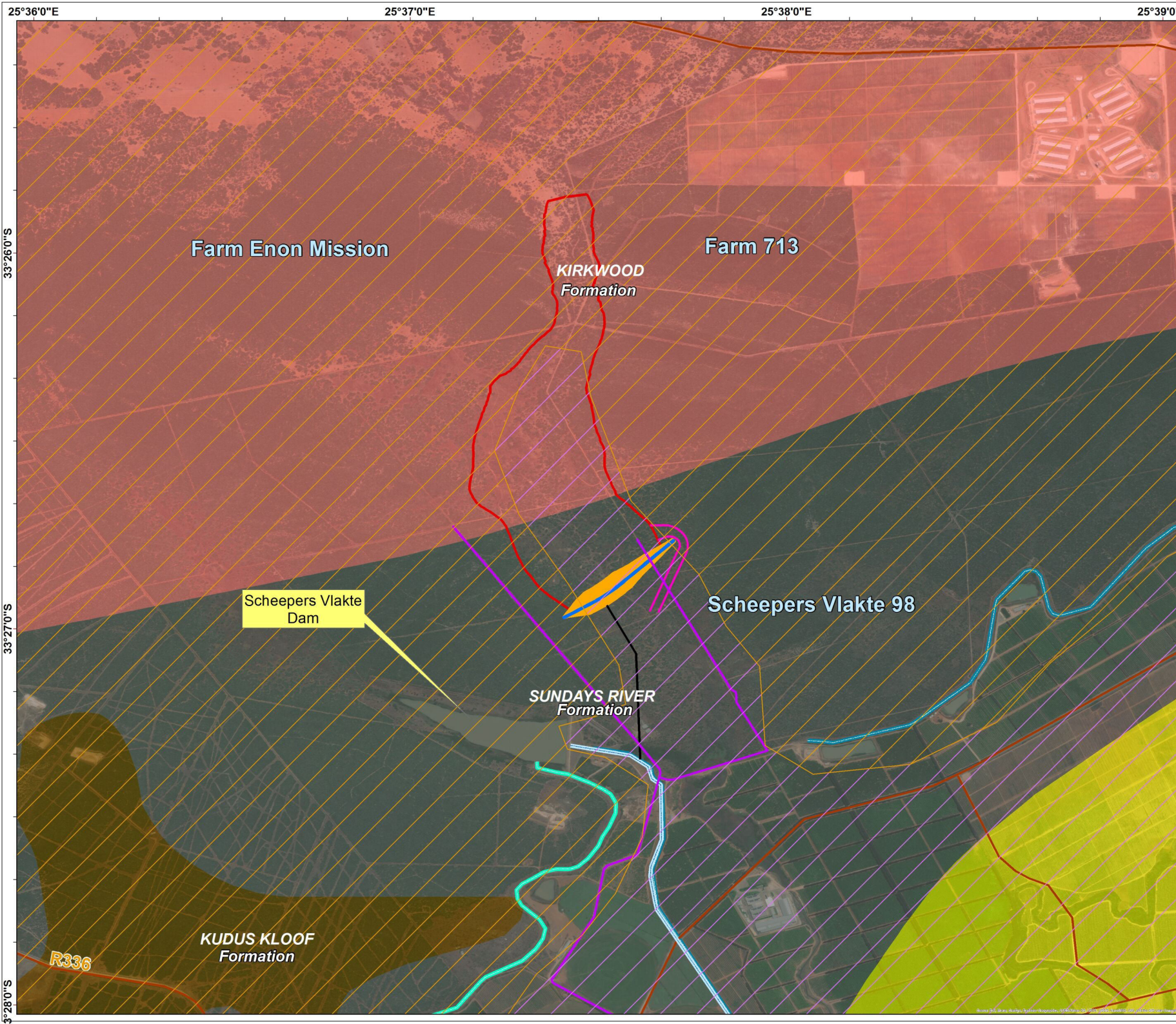
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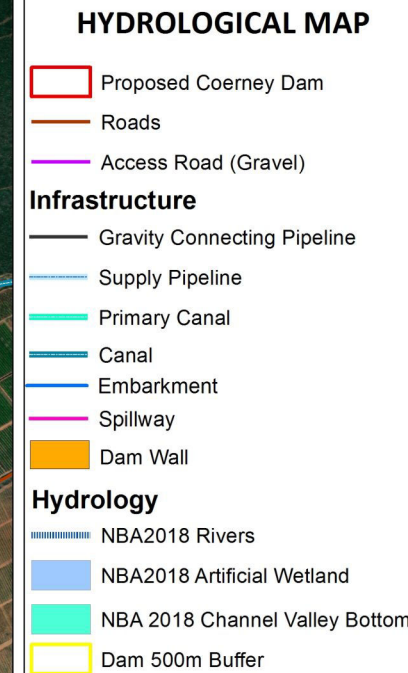
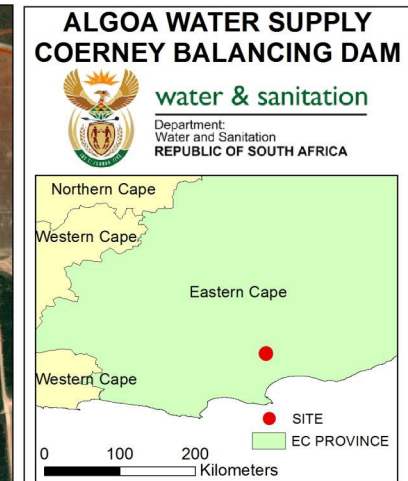
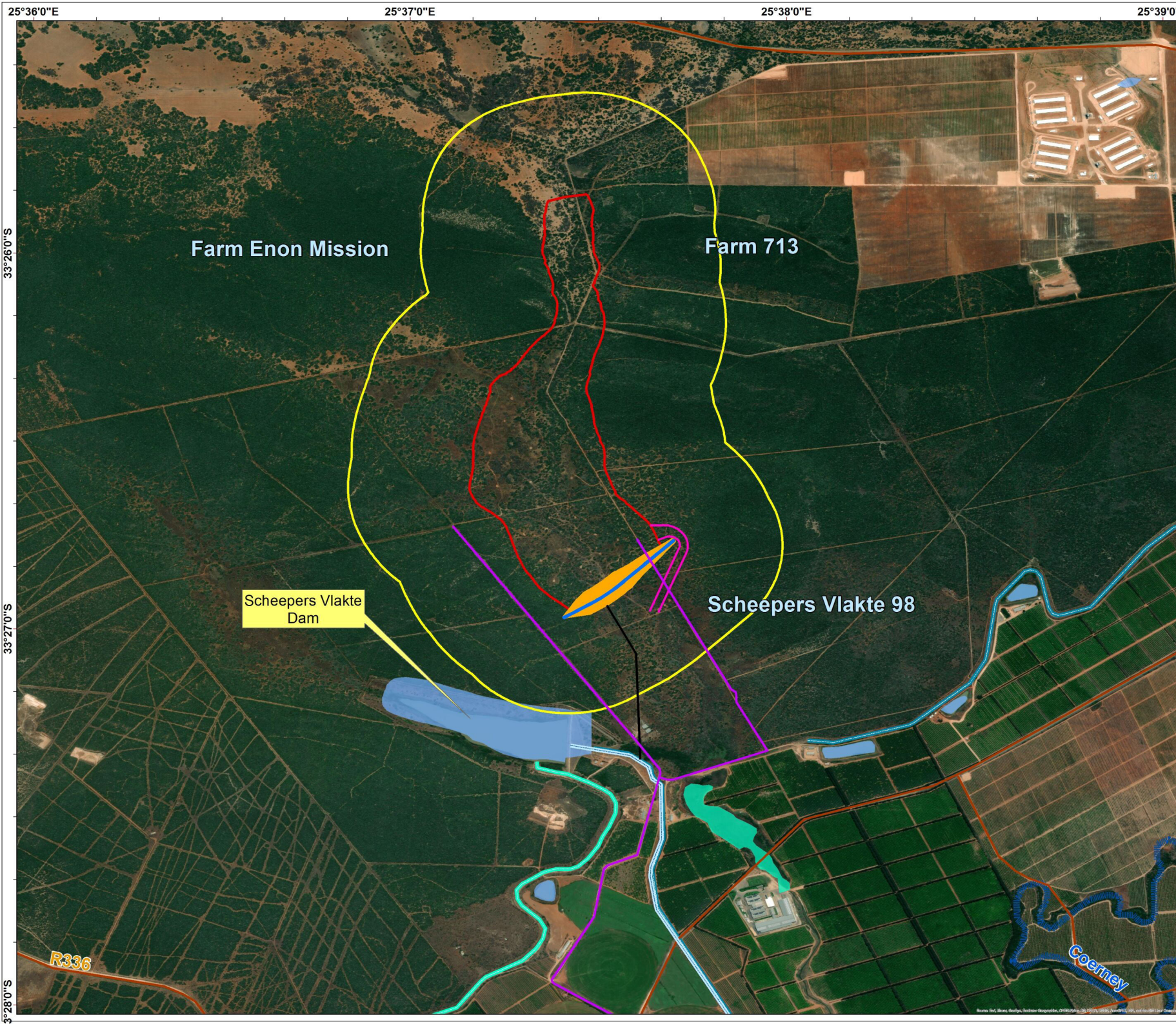


GEOLOGY & SOILS MAP

-  Proposed Coerney Dam
-  Roads
-  Access Road (Gravel)
- Infrastructure**
 -  Gravity Connecting Pipeline
 -  Supply Pipeline
 -  Primary Canal
 -  Canal
 -  Embarkment
 -  Spillway
 -  Dam Wall
- Soil Types**
 -  Glenrosa and/or Mispah forms, Lime Present
 -  Miscellaneous land classes, undifferentiated deep deposits
- Port Elizabeth 3324 Geology**
 -  Alluvium
 -  Gravel, Sand, & Silt
 -  Shale, Siltstone & Sandstone
 -  Mudstone, Sandstone & Shale

Sources: Chief Surveyor General, ESRI South Africa, CGS, SANBI, DEFF & Project Team



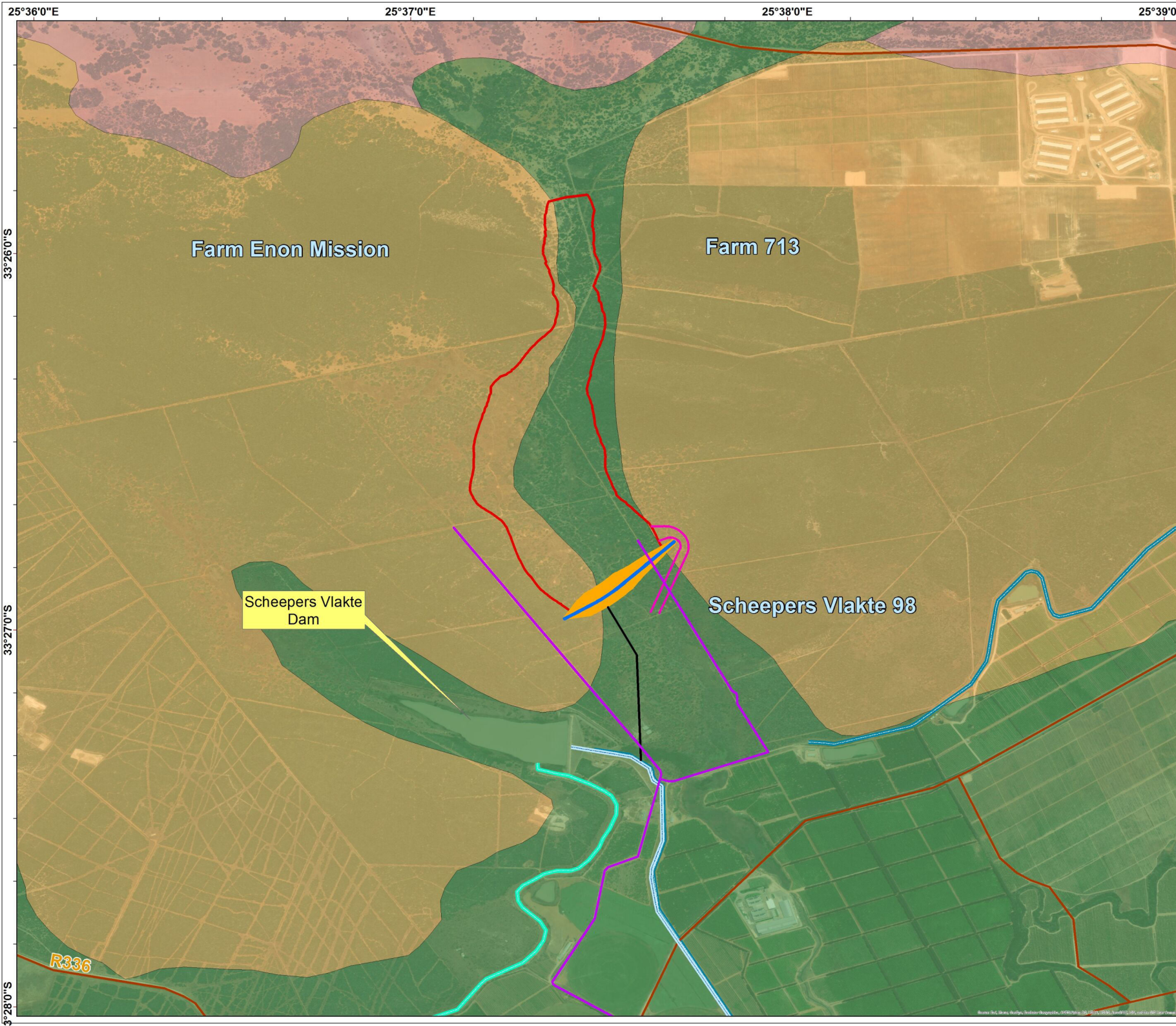


Sources: Chief Surveyor General, ESRI
South Africa, CGS, SANBI, DEFF & Project Team



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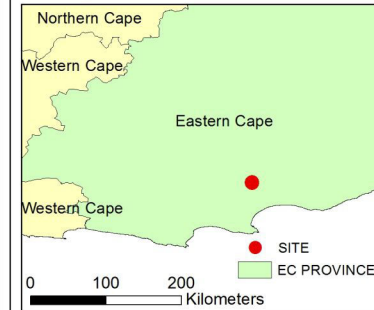




ALGOA WATER SUPPLY COERNEY BALANCING DAM



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VEGETATION MAP

- Proposed Coerney Dam
- Roads
- Access Road (Gravel)

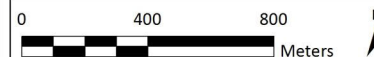
Infrastructure

- Gravity Connecting Pipeline
- Supply Pipeline
- Primary Canal
- Canal
- Embankment
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- Dam Wall

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- Albany Alluvial Vegetation (EN)
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