







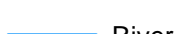



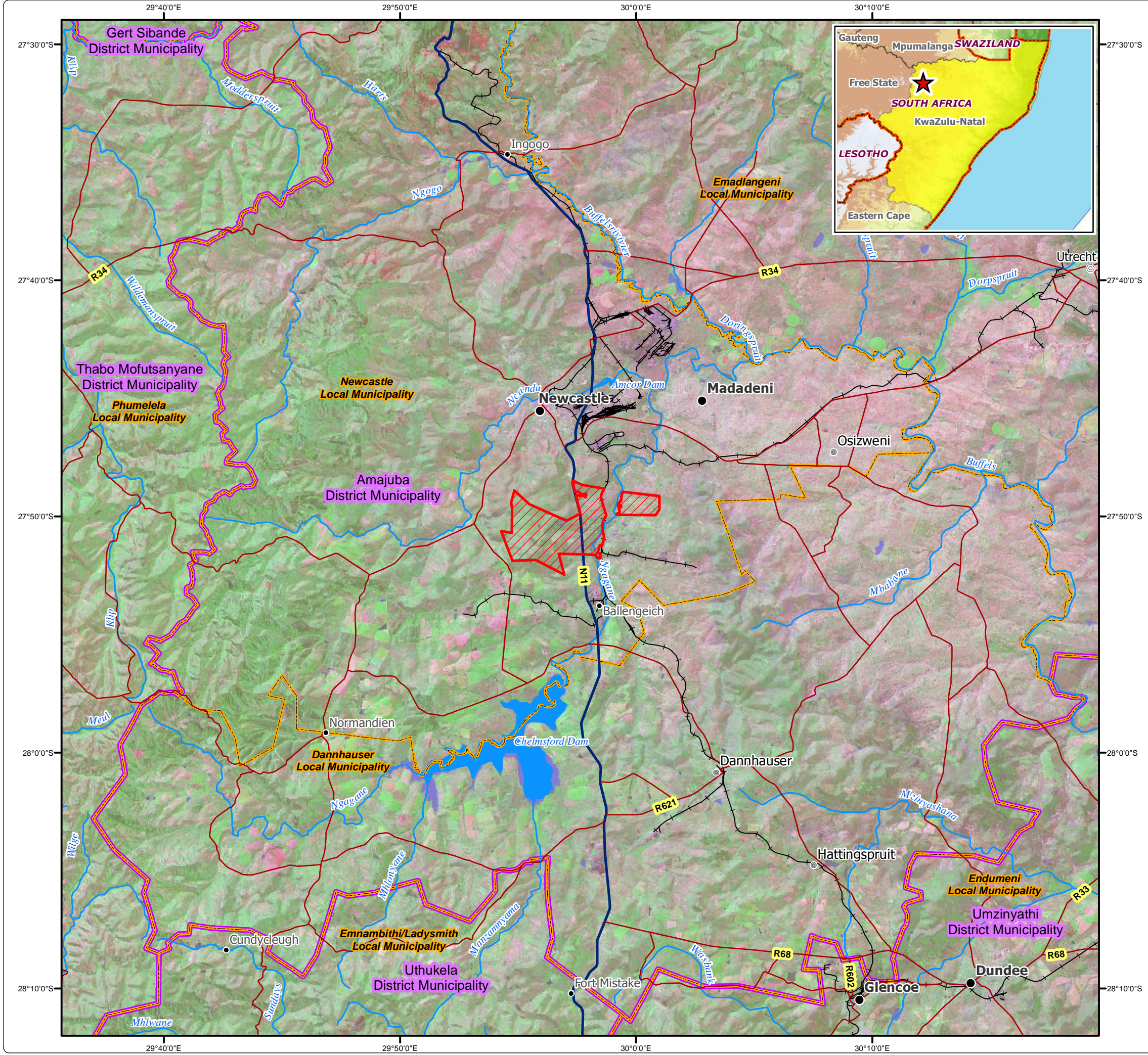



Eskom Kilbarchan Colliery Regional Setting

Legend



-  Mining Licence Boundary
-  Major Town
-  Secondary Town
-  Other Town
-  Settlement
-  Main Road
-  National Road
-  Railway Line
-  River
-  Dam
-  Local Municipal Boundary
-  District Municipal Boundary




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| | |
|---------------------------------|-------------------------------|
| Projection: Transverse Mercator | Ref #: jcf.ESK3520.201604.029 |
| Datum: WGS84 | Revision Number: 1 |
| Central Meridian: 29°E | Date: 01/04/2016 |

Kilometres
1:300,000

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Eskom Kilbarchan Colliery Local Setting

Legend

- Mining Licence Boundary
- Decant Boreholes
- Major Town
- Settlement
- Power Line
- +—+— Railway Line
- Arterial Route
- Main Road
- Minor Road
- Dam Wall
- Perennial Stream
- - - Non - Perennial Stream
- Dam / Lake
- Perennial Pan
- Non - Perennial Pan
- Wetland
- Infrastructure**
- ▣ Bioremediation Plant
- Discard Dump
- Powerstation



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 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016




Eskom Kilbarchan Colliery

Mine Layout and Rehabilitation Activities

Legend

- Mining Licence Boundary
- Heritage Point
- Power Line
- Arterial Route
- Minor Road
- Railway Line
- Dam Wall
- Perennial Stream
- Non - Perennial Stream
- Dam / Lake
- Perennial Pan
- Non - Perennial Pan
- Wetland
- Heritage Area
- Infrastructure**
- Decant Boreholes
- Bioremediation Plant
- Discard Dump
- Powerstation
- Historical Mine Plan**
- Underground Mining Area


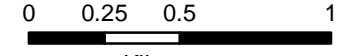
- ### Rehabilitation Activities
- #### Focus Areas
- Open Pit 1a
 - Open Pit 1b
 - Open Pit 1c
 - Discard Dump
 - Landfill & Dam structure
 - Open Pit 2
 - Remnant buildings & WWTP
 - Afrisam Quarry
 - Housing Village
 - Decant Affected Land / Phytoremediation Site



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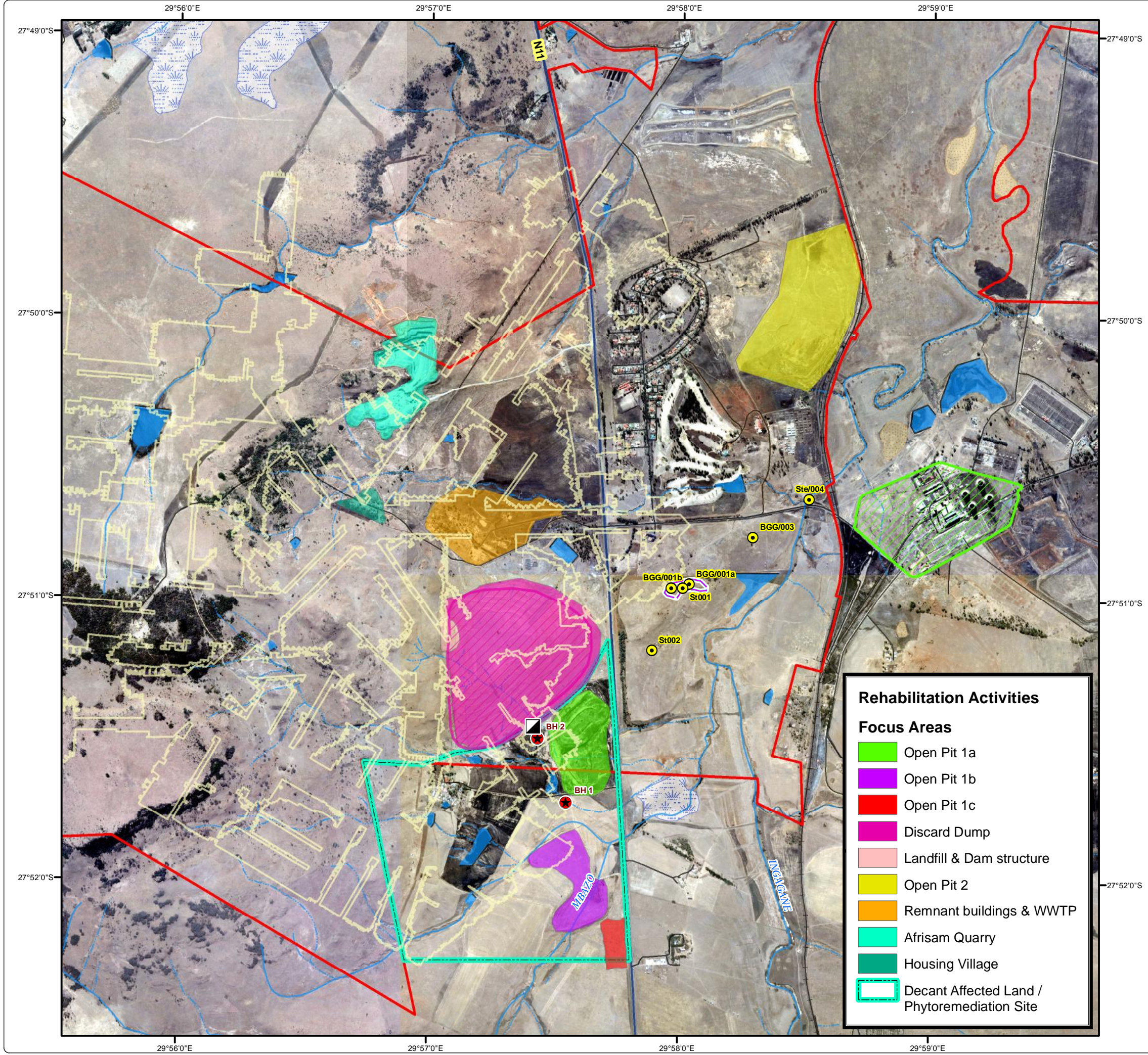
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Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.031
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 23/08/2016

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Quaternary Catchments

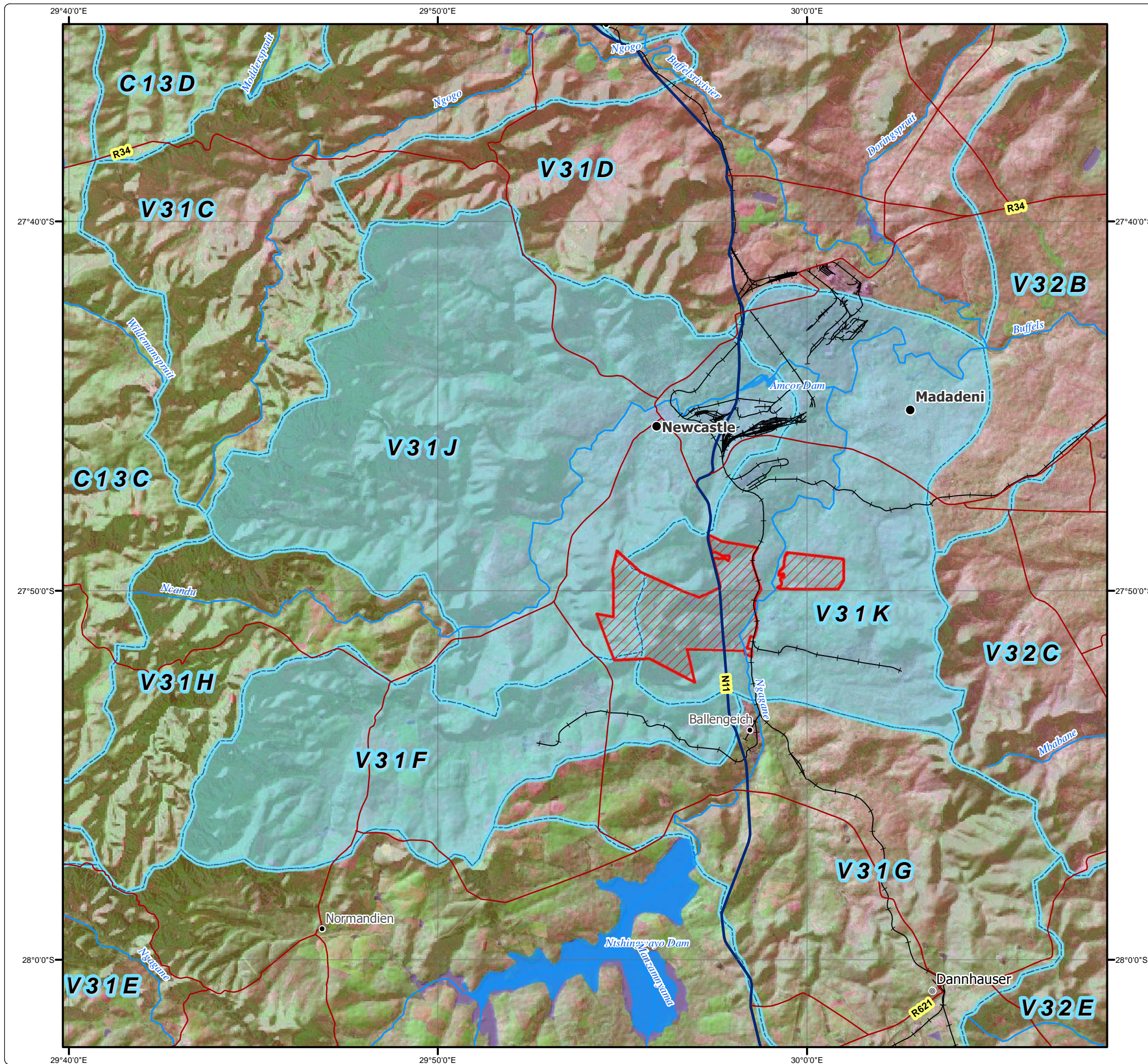
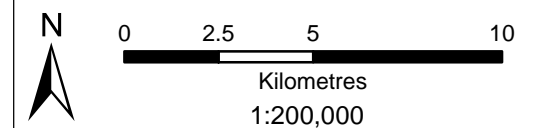
Legend

-  Mining Licence Boundary
-  Major Town
-  Other Town
-  Settlement
-  Main Road
-  National Road
-  Railway Line
-  River
-  Dam
-  Affected Catchments
-  Quaternary Catchment Boundary



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Datum: WGS84 Revision Number: 1
Central Meridian: 29°E Date: 01/04/2016



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Surface Water Monitoring Locations

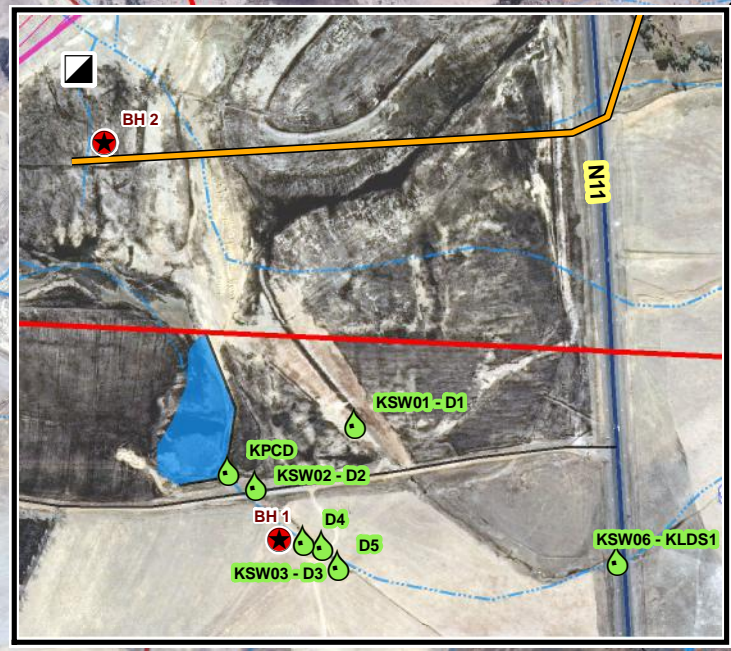
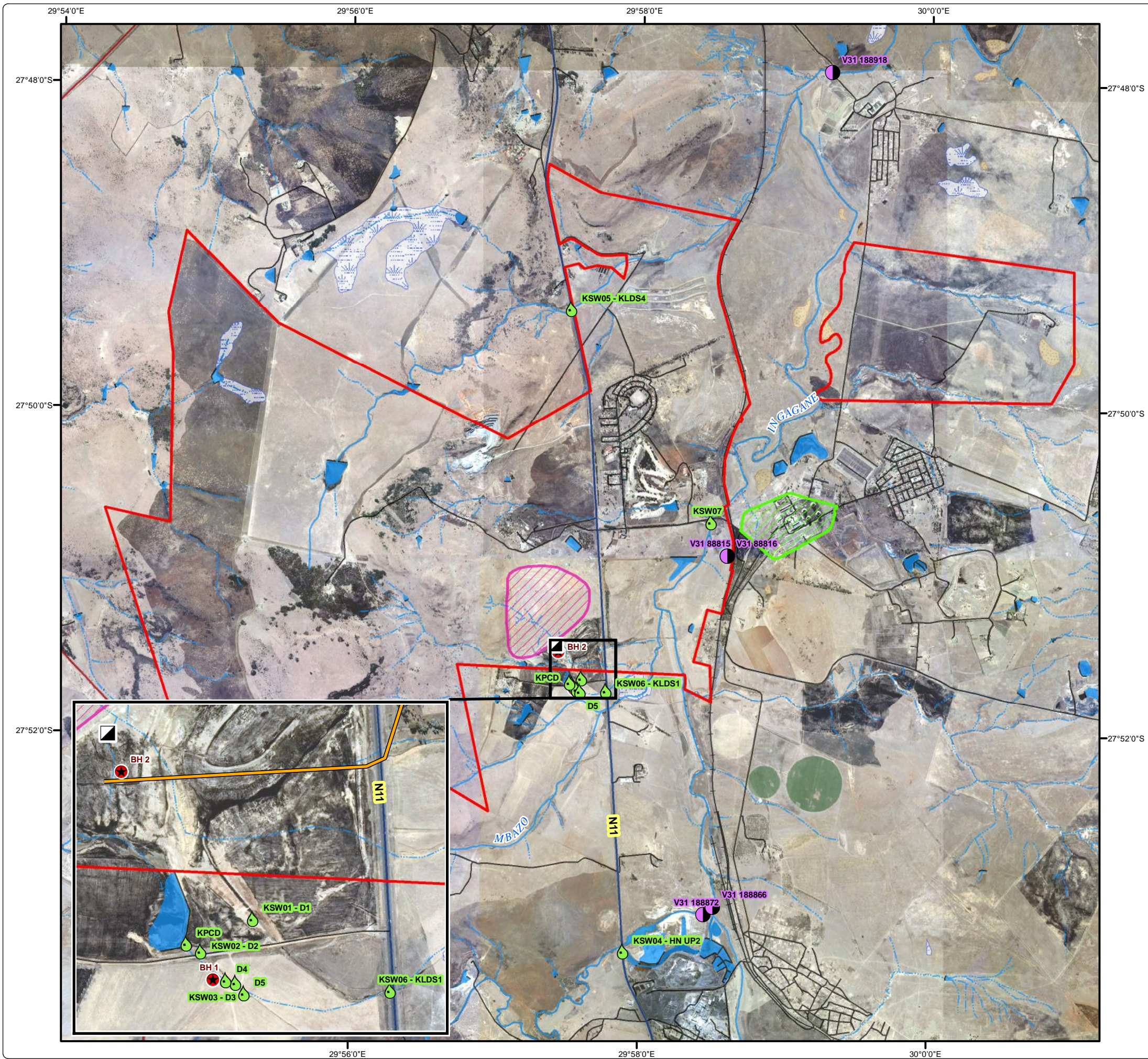
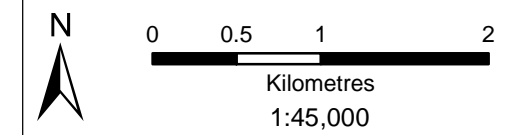
Legend

- Mining Licence Boundary
- Surface Water Monitoring Locations
- Historical Water Quality Points
- Arterial Route
- Minor Road
- Railway Line
- Dam Wall
- Perennial Stream
- Non - Perennial Stream
- Dam / Lake
- Non - Perennial Pan
- Wetland
- Bioremediation Plant
- Decant Boreholes
- Discard Dump
- Powerstation



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


















Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.033
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016

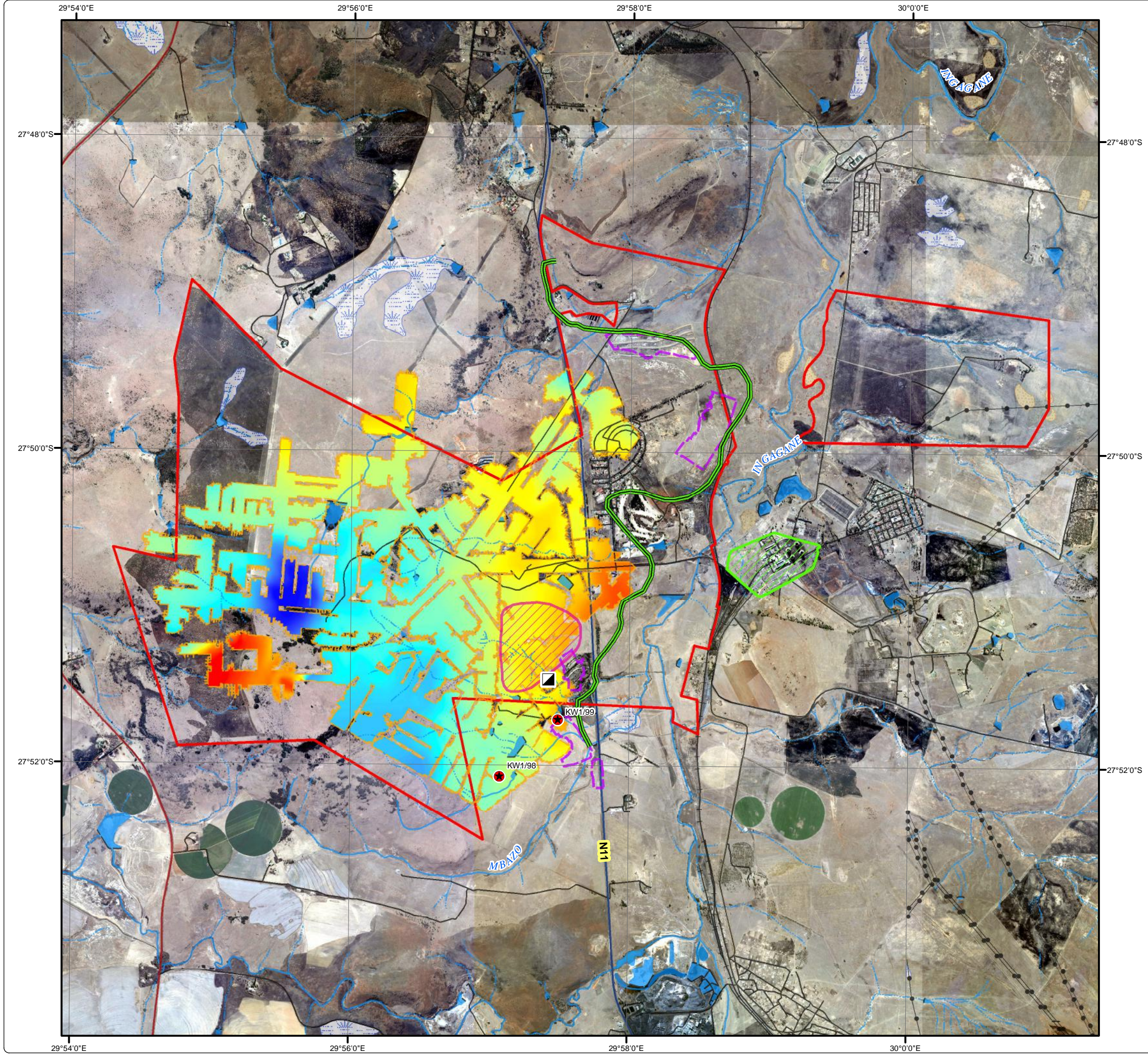


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Coal Seam Floor Elevation

Legend

-  Mining Licence Boundary
 -  Major Town
 -  Settlement
 -  Power Line
 -  Railway Line
 -  Arterial Route
 -  Main Road
 -  Minor Road
 -  Dam Wall
 -  Perennial Stream
 -  Non - Perennial Stream
 -  Dam / Lake
 -  Perennial Pan
 -  Non - Perennial Pan
 -  Wetland
 -  Coal Outcrop
 -  Underground Mining Area
 -  Opencast Area
- Coal Seam Floor Elevation**
 High : 1194

 Low : 1140
-  Bioremediation Plant
 -  Identified Potential Abstraction Boreholes
 -  Discard Dump
 -  Powerstation



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Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.034
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016

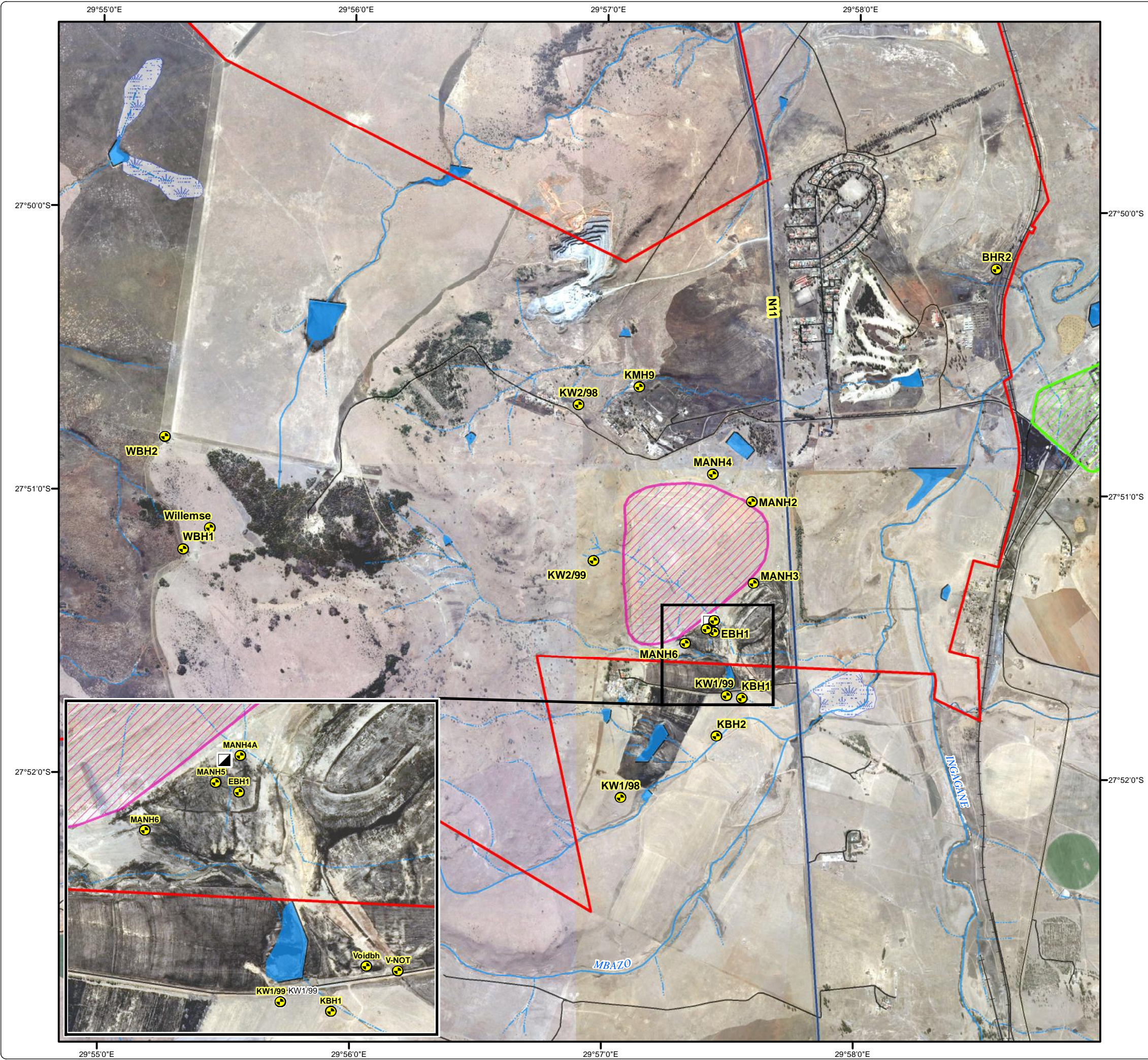


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Groundwater Monitoring Points

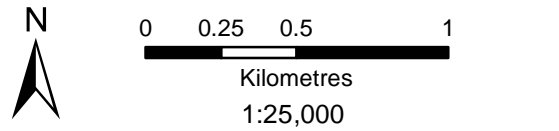
Legend

- Mining Licence Boundary
- ⊙ Groundwater Monitoring Points
- +—+— Railway Line
- Arterial Route
- Minor Road
- Dam Wall
- Perennial Stream
- - - Non - Perennial Stream
- Dam / Lake
- Non - Perennial Pan
- Wetland
- ▣ Bioremediation Plant
- Discard Dump
- Powerstation



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Aquatic Monitoring Locations

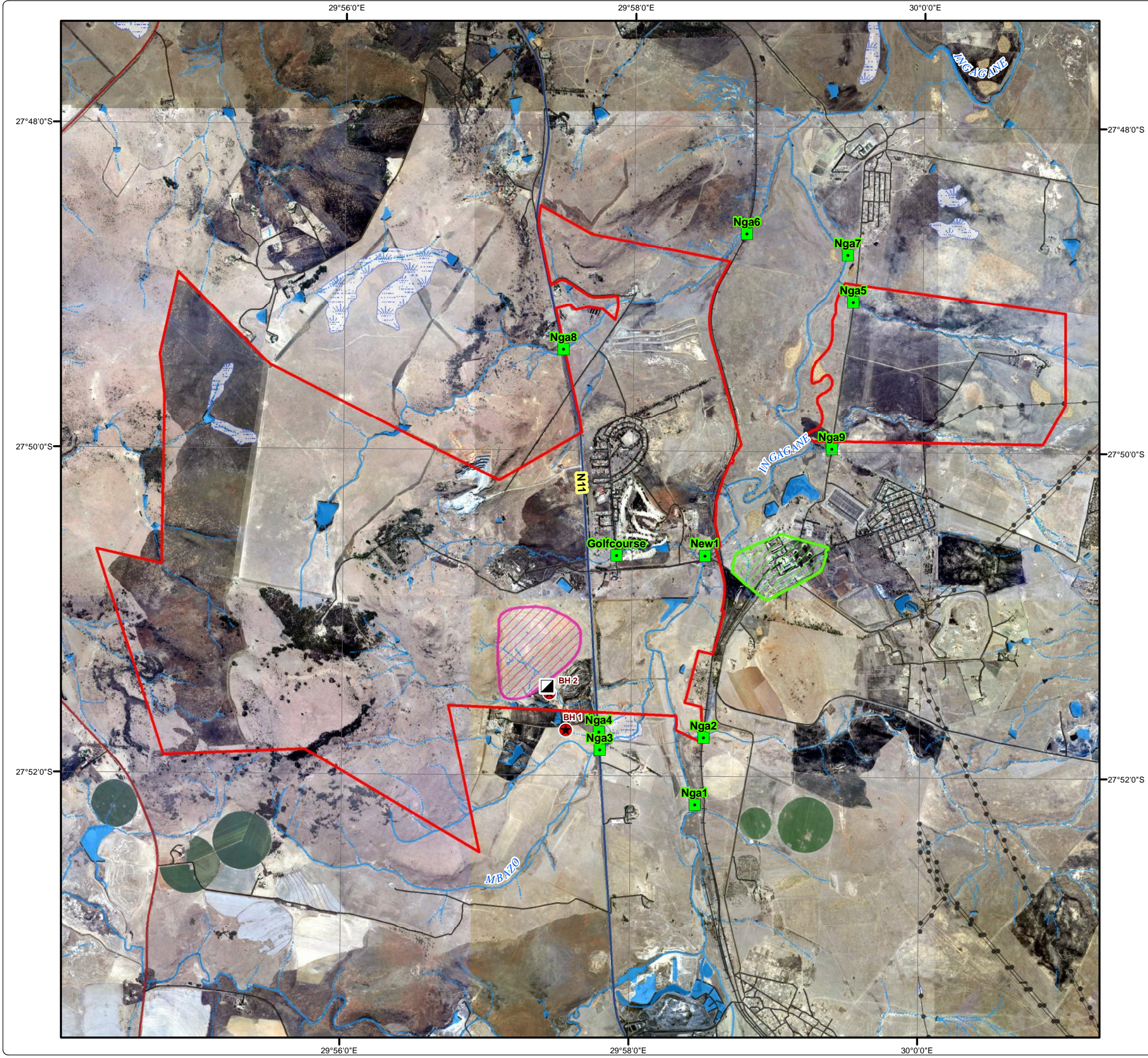
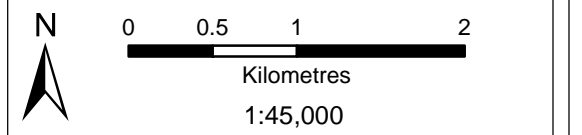
Legend

- Mining Licence Boundary
- Aquatic Sampling Points
- Power Line
- Arterial Route
- Main Road
- Minor Road
- Railway Line
- Dam Wall
- Perennial Stream
- Non - Perennial Stream
- Dam / Lake
- Non - Perennial Pan
- Wetland
- Bioremediation Plant
- * Decant Boreholes
- Discard Dump
- Powerstation



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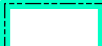



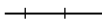







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







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Delineated Wetlands

Legend

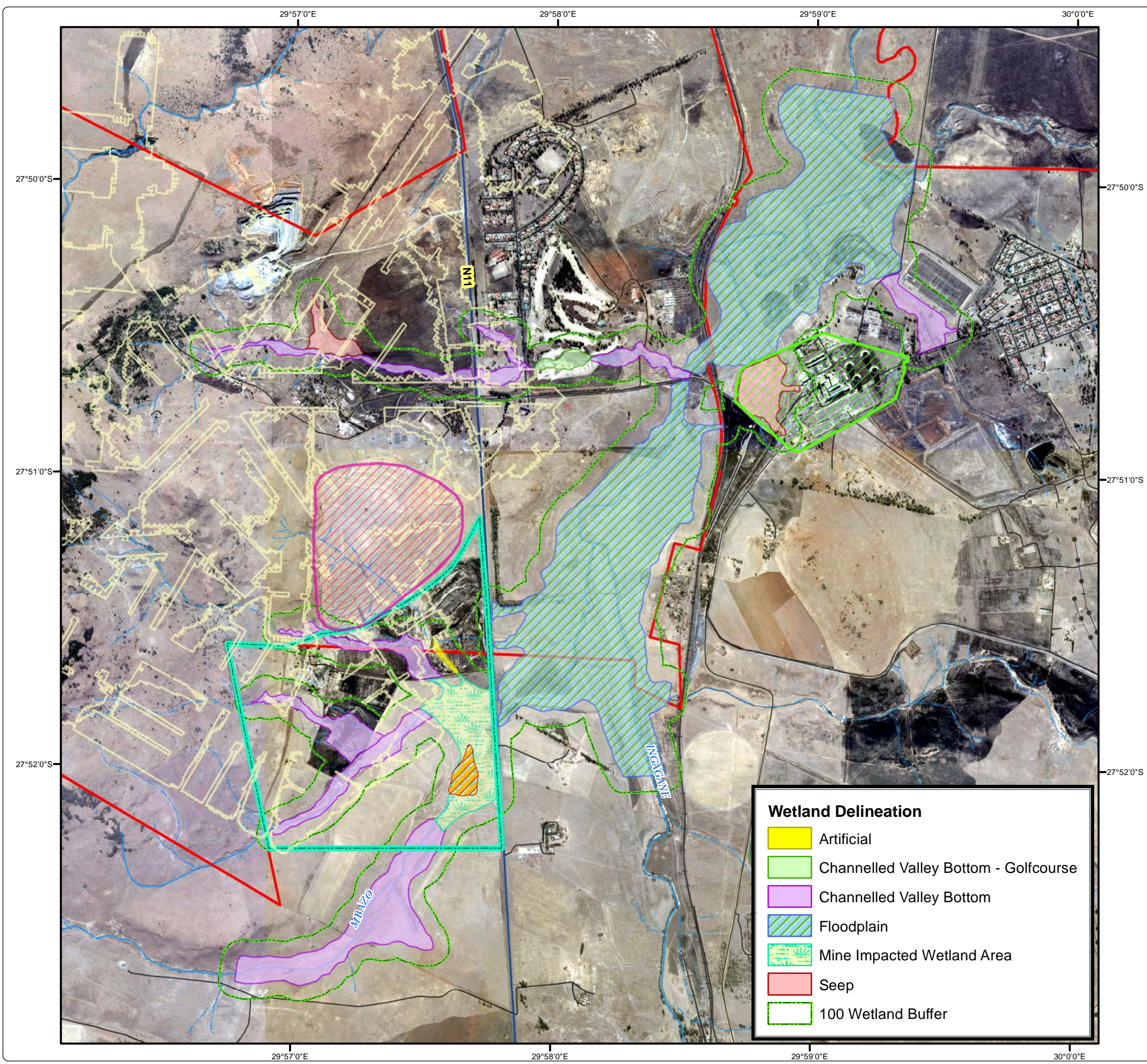
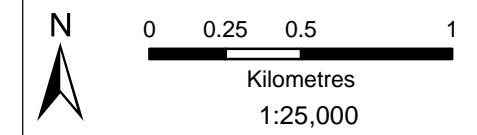
-  Mining Licence Boundary
 -  Decant Affected Land / Phytoremediation Site
 -  Power Line
 -  Arterial Route
 -  Minor Road
 -  Railway Line
 -  Dam Wall
 -  Perennial Stream
 -  Non - Perennial Stream
 -  Discard Dump
 -  Powerstation
 -  High Levels of Mine Affected Water
- Historical Mine Plan**
-  Underground Mining Area

- Wetland Delineation**
-  Artificial
 -  Channelled Valley Bottom - Golfcourse
 -  Channelled Valley Bottom
 -  Floodplain
 -  Mine Impacted Wetland Area
 -  Seep
 -  100 Wetland Buffer



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















Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.037
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 01/04/2016



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Heritage Resources

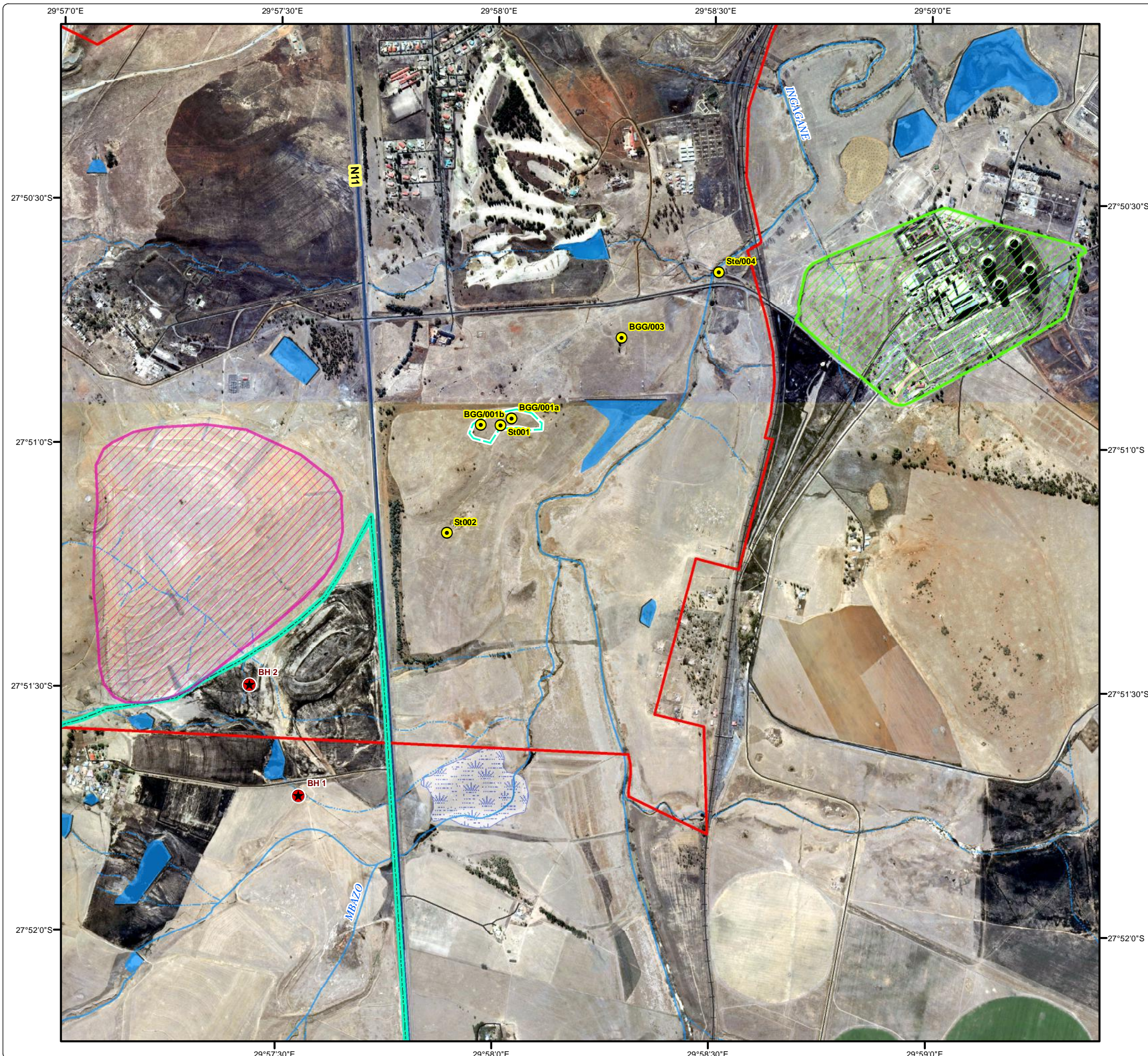
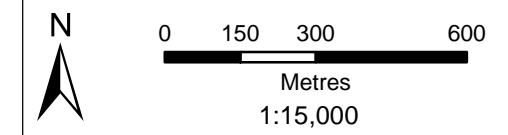
Legend

-  Mining Licence Boundary
-  Decant Affected Land / Phytoremediation Site
-  Power Line
-  Arterial Route
-  Minor Road
-  Railway Line
-  Dam Wall
-  Perennial Stream
-  Non - Perennial Stream
-  Dam / Lake
-  Non - Perennial Pan
-  Wetland
-  Decant Boreholes
-  Discard Dump
-  Powerstation
- Heritage Resources**
-  Heritage Point
-  Heritage Area



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Projection: Transverse Mercator Ref #: jcf.ESK3520.201604.038
 Datum: WGS84 Revision Number: 1
 Central Meridian: 29°E Date: 04/04/2016



Eskom Kilbarchan Colliery

Phytoremediation Layout

Legend

Mining Licence Boundary

Decant Affected Land / Phytoremediation Site

Arterial Route

Minor Road

Dam Wall

Perennial Stream

Non - Perennial Stream

Dam / Lake

Non - Perennial Pan

Wetland

Phytoremediation Species

Combretum erythrophyllum and Chrysopogon zizanioides

Eucalyptus camaldulensis / Combretum erythrophyllum

Sporobolus spicatus and Chrysopogon zizanioides

Tamarix usneoides

Decant Boreholes

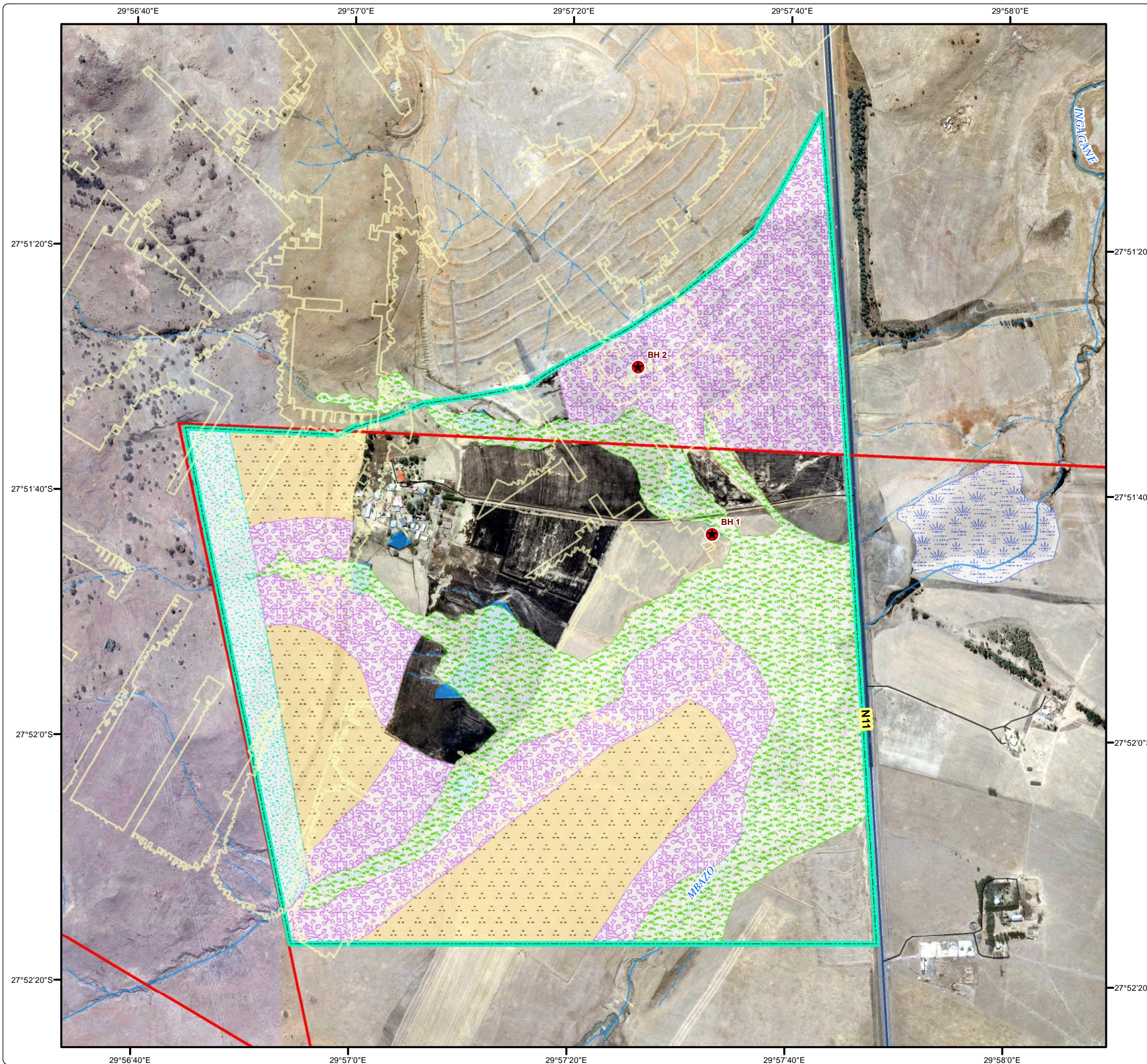
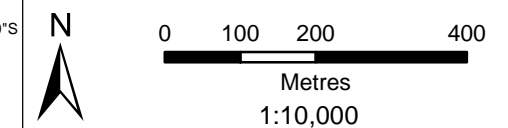
Historical Mine Plan

Underground Mining Area












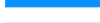





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Central Meridian: 29°E Date: 04/04/2016





Eskom Kilbarchan Colliery Composite Plan

Legend

-  Mining Licence Boundary
-  Power Line
-  Railway Line
-  Arterial Route
-  Main Road
-  Minor Road
-  Dam Wall
-  Perennial Stream
-  Non - Perennial Stream
-  Dam / Lake
-  Non - Perennial Pan
- Infrastructure**
-  Decant Boreholes
-  Discard Dump
-  Power Station
- Historical Mine Plan**
-  Underground Mining Area

Features of Interest and Sensitivity

Heritage Resources

-  Heritage Point
-  Heritage Area









Wetland: Ecological Importance & Sensitivity

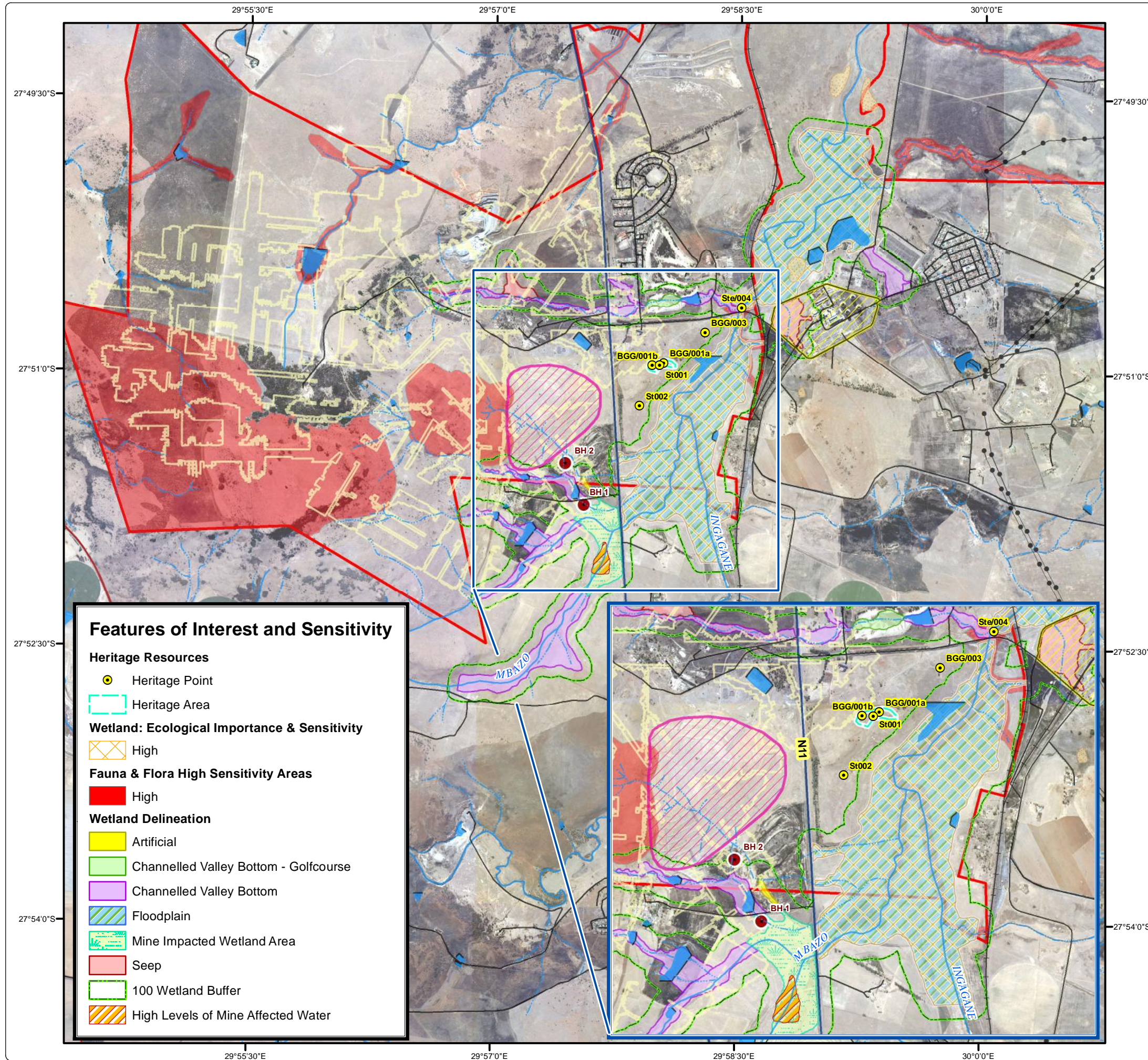
-  High

Fauna & Flora High Sensitivity Areas

-  High

Wetland Delineation

-  Artificial
-  Channelled Valley Bottom - Golfcourse
-  Channelled Valley Bottom
-  Floodplain
-  Mine Impacted Wetland Area
-  Seep
-  100 Wetland Buffer
-  High Levels of Mine Affected Water



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