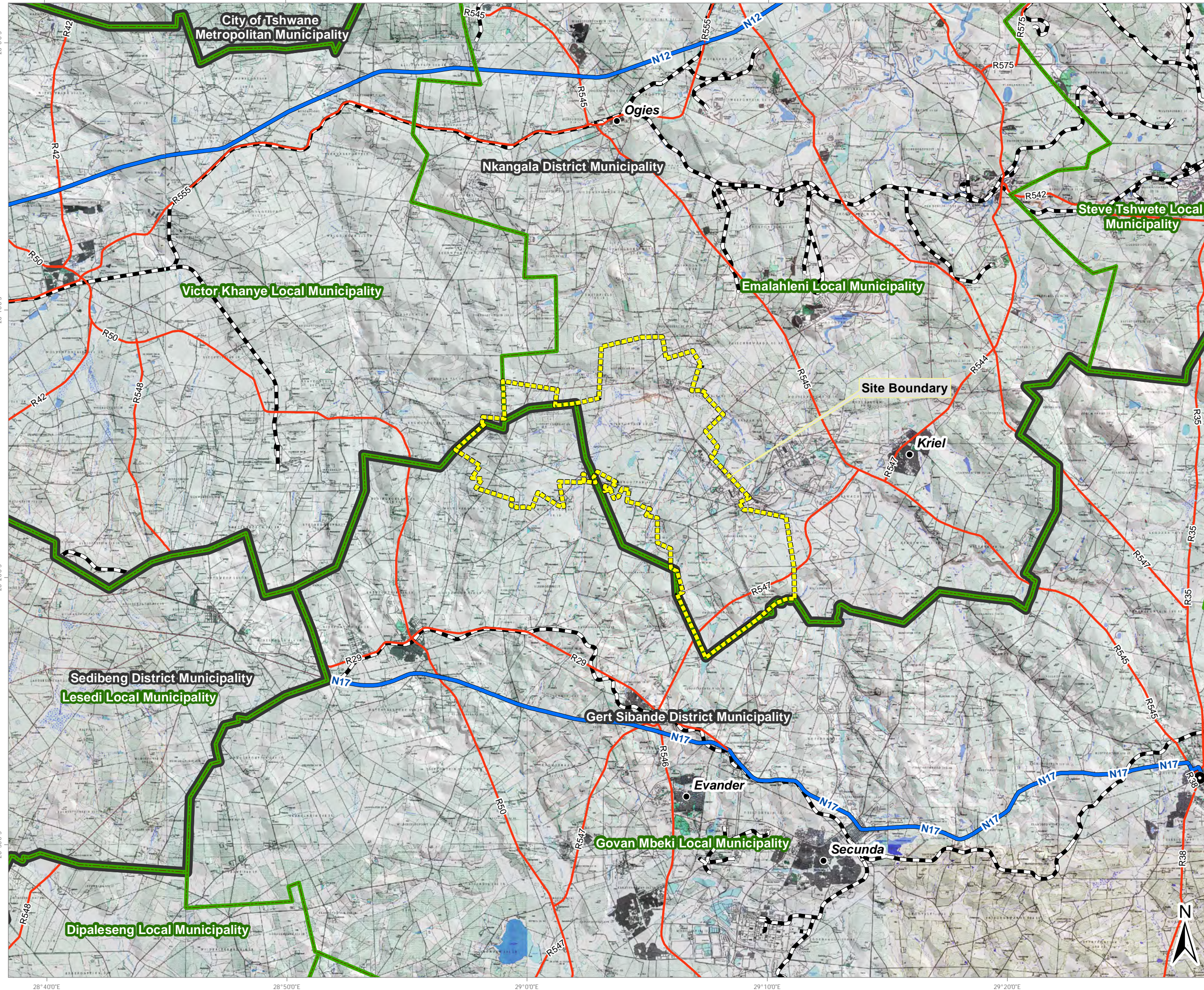


# MATLA: LOCALITY



**LEGEND**

**Cities / Towns**

- Capital City
- Major Towns
- Secondary Towns

**Road Network**

- National Route
- Main Road
- Railway Line
- Mine Boundary
- Local Municipality
- District Municipality

**PRETORIA**  
**GAUTENG**  
**MPUMALANGA**  
**FREE STATE**

0 2 4 8 Kilometers  
 SCALE: 1:250 000

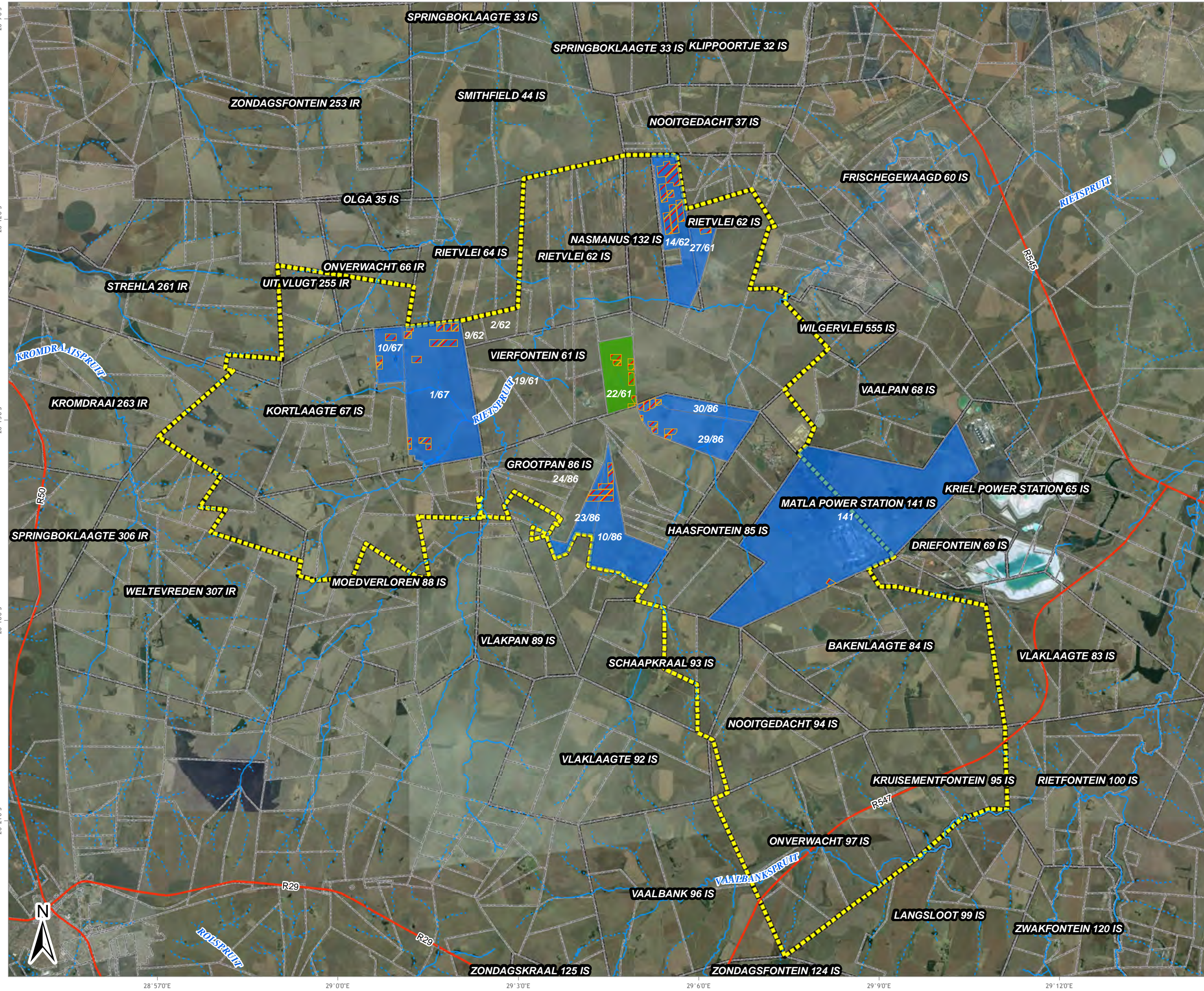
FIGURE NO.:	MAP NUMBER: 13-400-03-V2
DRAWN BY: JF VERMEULEN GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 07 OCTOBER 2014
PROJECT: STOOPING (MATLA) CLIENT: MATLA	

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 Consultants

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 Fax: +27 (0) 11 803 5745  
 E-mail: jhb@gcs-sa.biz  
 www.gcs-sa.biz

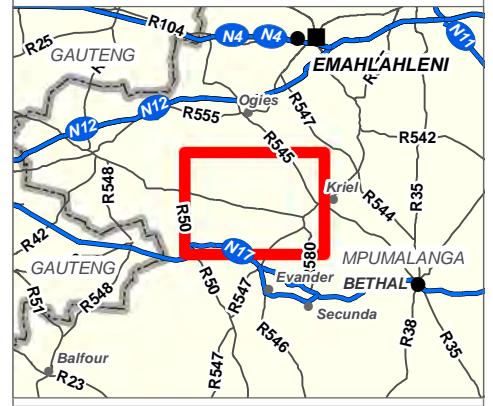


# MATLA STOOPING PHASE 1 - ESKOM PROPERTIES



### LEGEND

- Rivers and Streams**
  - Non-Perennial
  - Perennial
- Road Network**
  - National Route
  - Main Road
- Stooping Areas**
- Exxaro Holdings**
- ESKOM Holdings**
- Mine Boundary**
- Farm Portions**
- Parent Farms**



Data Sources: Property information from client  
 Google Earth™ mapping service: 2015  
 Imagery Date: 07/2013

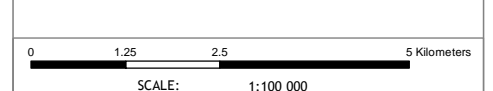


FIGURE NO.:	MAP NUMBER: 13-400-14-V2
DRAWN BY: NK NDALA GIS TECHNOLOGIST	REVIEWED BY: E RETIEF PROJECT MANAGER
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 07 OCTOBER 2015

PROJECT: STOOPING (MATLA)  
 CLIENT: MATLA

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 Fax: +27 (0) 11 803 5745  
 E-mail: jhb@gcs-sa.biz  
 www.gcs-sa.biz

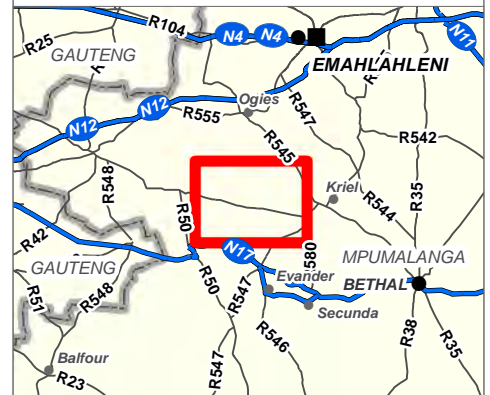


# EXXARO ANGLO SWAP



## LEGEND

- Road Network**
- National Route
  - Main Road
  - Secondary Road
- Rivers and Streams**
- Non-Perennial
  - Perennial
- Other Features**
- Parent Farms
  - Farm Portions
  - Ceded to Anglo
  - Ceded to Matla



Data Sources:  
Imagery: ESRI Basemap



SCALE: 1:80 000

FIGURE NO.: - MAP NUMBER: 16-1208-30

DRAWN BY: AMT MKHWANAZI GIS TECHNICIAN REVIEWED BY: P CHETTY GIS SPECIALIST

DATUM: WGS84 DATE: 11 JUNE 2018

PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL  
CLIENT: EXXARO MATLA COAL MINE

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www.gcs-sa.biz

28°57'0"E 29°00'0"E 29°30'0"E 29°60'0"E 29°90'0"E 29°120'0"E

26°17'0"S 26°15'0"S 26°13'0"S 26°11'0"S



# MATLA STOOPING- LOCALITY



**LEGEND**

**Road Network**

- National Route
- Main Road
- Secondary Road

**Rivers and Streams**

- Non-Perennial
- Perennial

**Other Features**

- Stooping Areas
- Mine Boundary
- Eskom Holdings
- EXXARO Coal Property
- Parent Farms
- Farm Portions

**Inset Map:** Shows the location of the Matla Stopping locality within the context of the Gauteng, Mpumalanga, and Limpopo provinces of South Africa. Major roads (R25, R104, R555, R547, R542, R35, R38, R35, R42, R41, R46, R23, R30, R47, R46, R47, R47) and towns (Gauteng, Emaahl'ahleni, Mpumalanga, Bethal, Secunda, Balfour) are indicated.

**Data Sources:** Property information from client  
 Google Earth™ mapping service: 2015  
 Imagery Date: 01/07/2013

**Scale:** 1:80 000

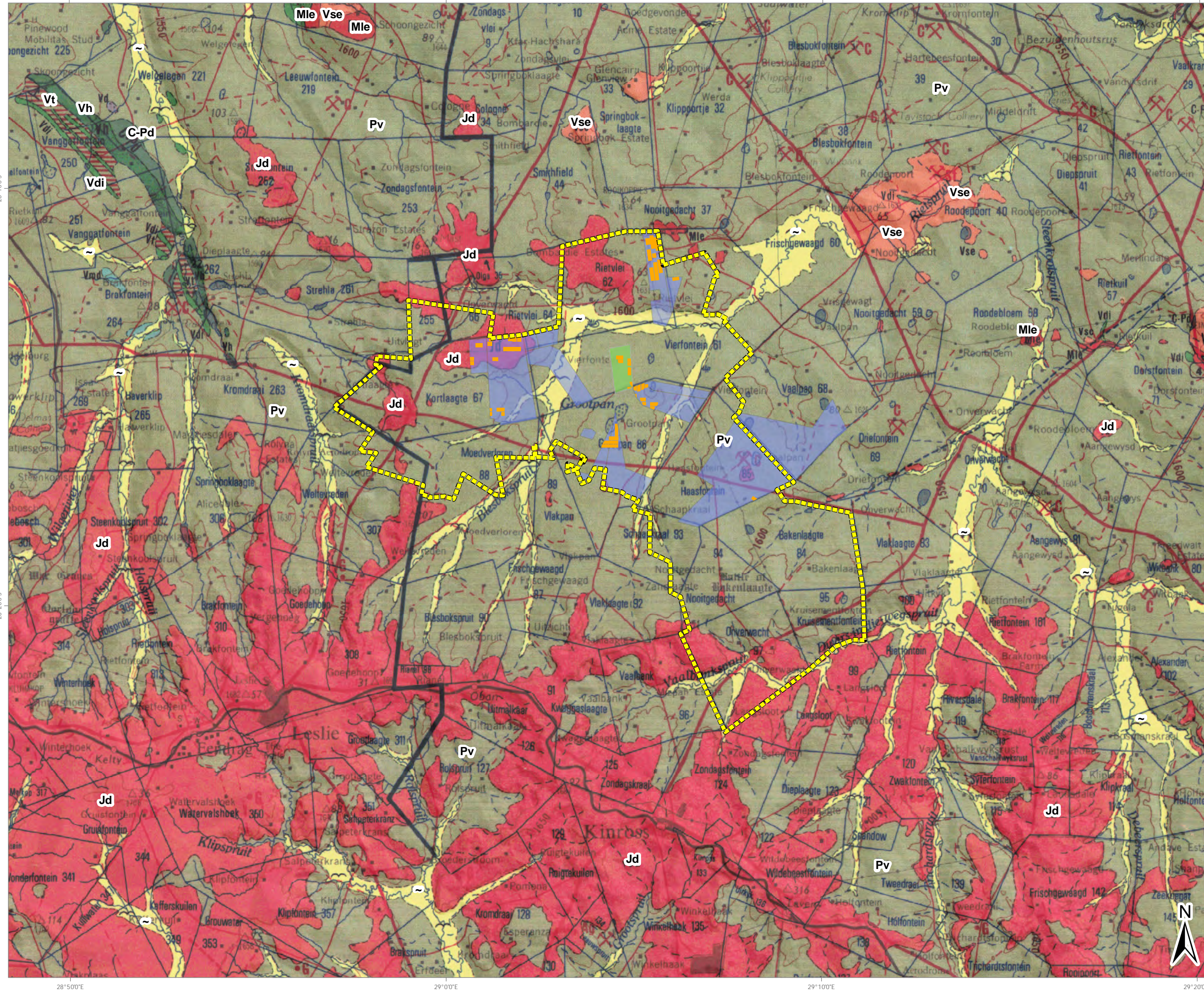
FIGURE NO.:	MAP NUMBER:
DRAWN BY: A BROWER GIS INTERN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84	DATE: 22 MAY 2017
PROJECTION: GEOGRAPHIC	
PROJECT: STOOPING (MATLA)	
CLIENT: MATLA	

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# MATLA: GEOLOGY



**LEGEND**

- Mine Boundary
- Stooping Areas
- Eskom Holdings
- Exxaro Holdings

**LITHOLOGY:**

C-Pd = Diamictite, Shale.  
 di = Diabase.  
 Jd = Dolerite.  
 Mie = Medium-grained porphyritic granite, red, coarse-grained biotite granite.  
 Pv = Sandstone, shale, coal beds.  
 Vlo = Agglomerate, lava.  
 Vse = Porphyritic rhyolite with embedded mudstone and sandstone.



Data Sources:  
 Council for Geoscience  
 1:250 000 Geological Series: 2628

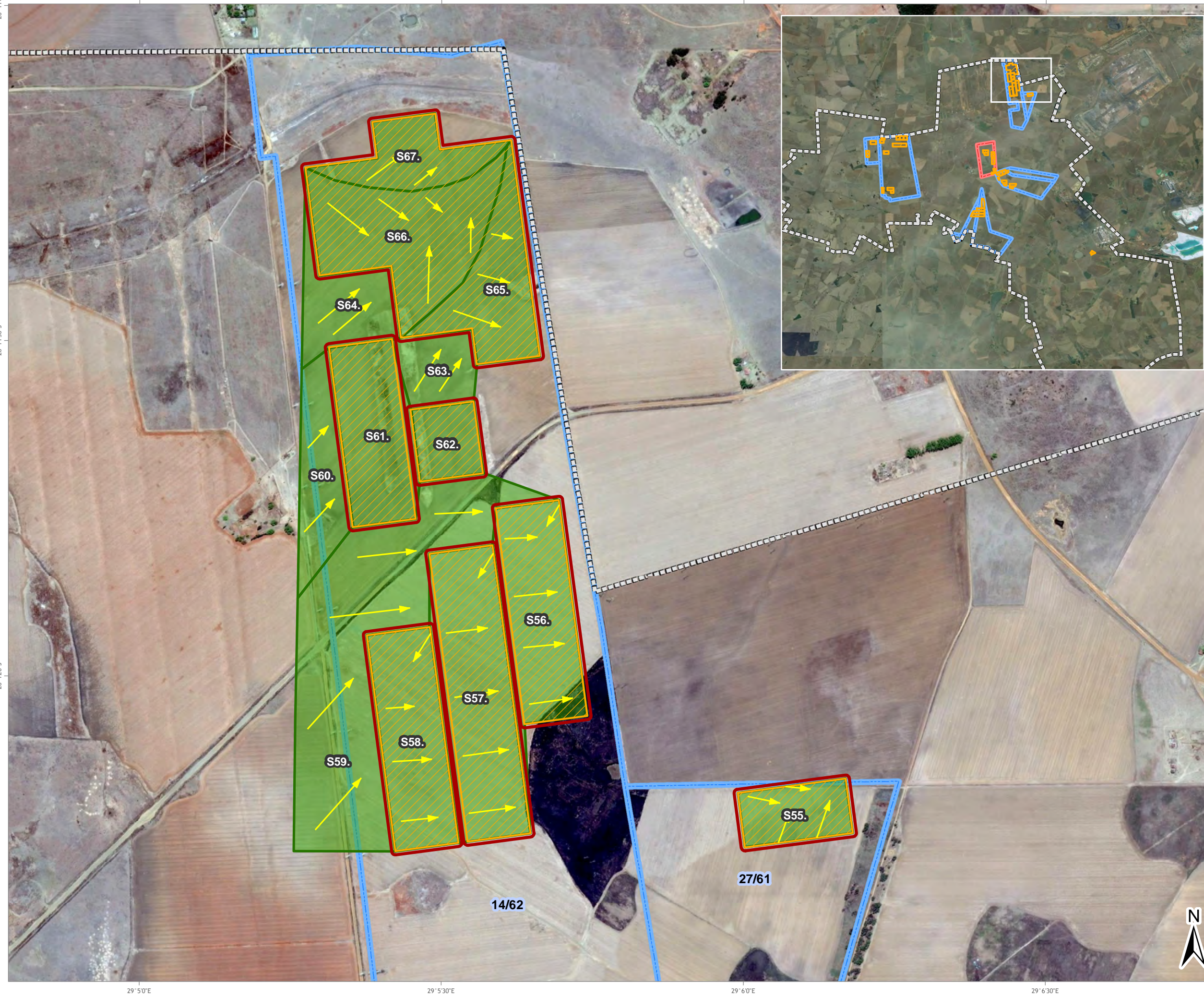
0 1.25 2.5 5 Kilometers	
SCALE: 1:160 000	
FIGURE NO.:	MAP NUMBER: 13-400-25
DRAWN BY: JF VERMEULEN GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 07 OCTOBER 2014
PROJECT: STOOPING (MATLA) CLIENT: MATLA	

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# MATLA STOOPING - SWMP SUB-CATCHMENT MAP (NORTHERN SECTION)



- LEGEND**
- Flow Direction
  - Stopping Areas
  - Berm
  - Subcatchments
  - Mine Boundary
  - Eskom Holdings
  - EXXARO Coal Property



Data Sources: Property information from client  
 Google Earth™ mapping service: 2015  
 Imagery Date: 23/09/2015  
 SWMP from Water Resource Engineer (E. Naidoo)

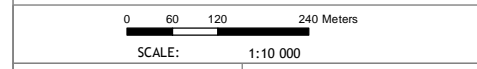


FIGURE NO.:	MAP NUMBER:	13-400-31
DRAWN BY: JF VERMEULEN GIS TECHNICIAN	REVIEWED BY: E NAIDOO WATER RESOURCE ENGINEER	
DATUM: WGS84	DATE: 08 DECEMBER 2015	
PROJECTION: GEOGRAPHIC		
PROJECT: STOOPING (MATLA)		
CLIENT: MATLA		

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29° 5'0"E      29° 5'30"E      29° 6'0"E      29° 6'30"E



# MATLA STOOPING - SWMP SUB-CATCHMENT MAP (WESTERN SECTION)



**LEGEND**

- Flow Direction
- Stopping Areas
- Berm
- Subcatchments
- Mine Boundary
- Eskom Holdings
- EXXARO Coal Property



Data Sources: Property information from client  
 Google Earth™ mapping service: 2015  
 Imagery Date: 23/09/2015  
 SWMP from Water Resource Engineer (E. Naidoo)

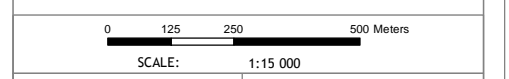


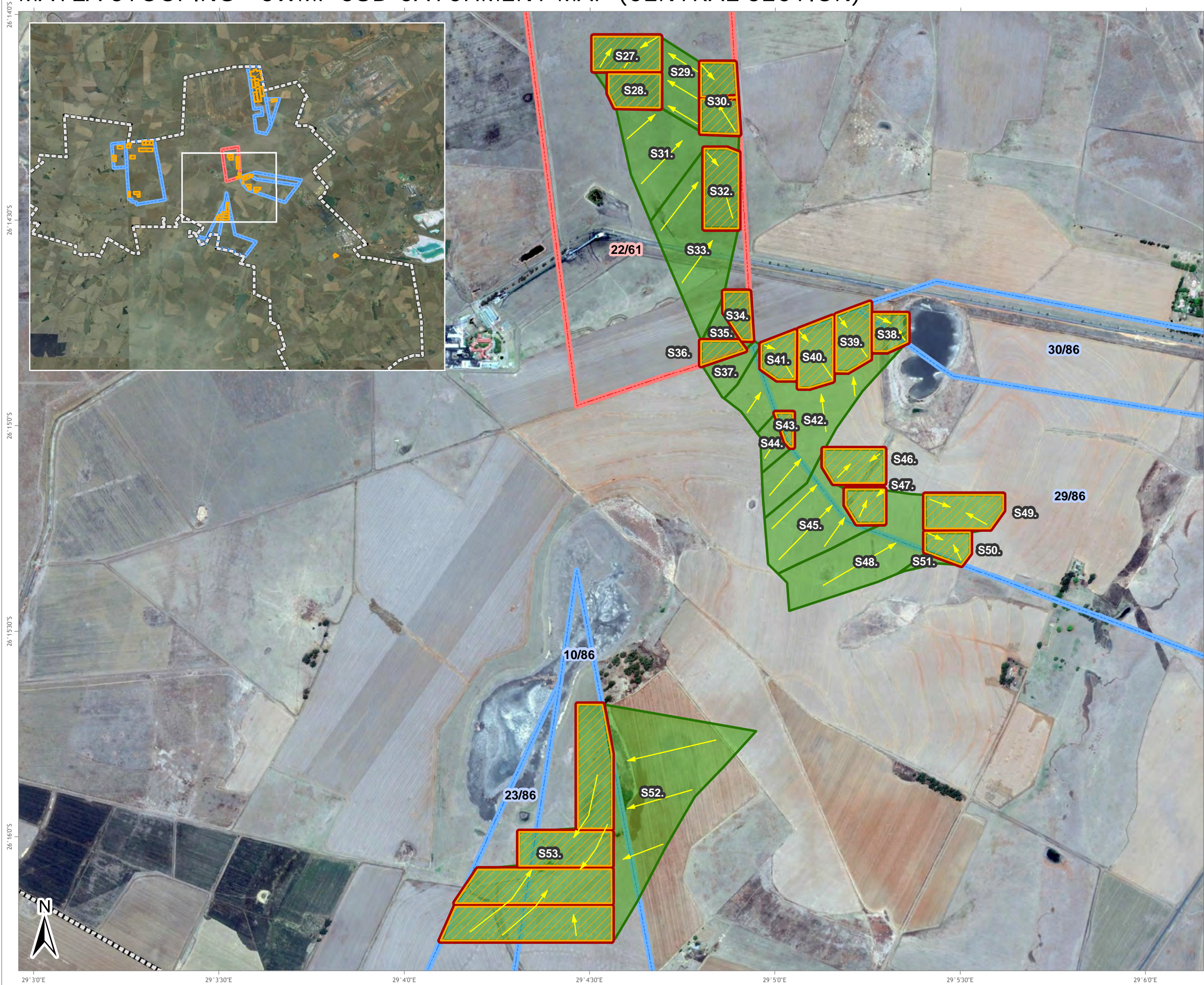
FIGURE NO.:	MAP NUMBER: 13-400-32
DRAWN BY: JF VERMEULEN GIS TECHNICIAN	REVIEWED BY: E NAIDOO WATER RESOURCE ENGINEER
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 08 DECEMBER 2015
PROJECT: STOOPING (MATLA) CLIENT: MATLA	

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# MATLA STOOPING - SWMP SUB-CATCHMENT MAP (CENTRAL SECTION)



**LEGEND**

- Flow Direction
- Stooing Areas
- Berm
- Subcatchments
- Mine Boundary
- Eskom Holdings
- EXXARO Coal Property



Data Sources: Property information from client  
 Google Earth™ mapping service: 2015  
 Imagery Date: 23/09/2015  
 SWMP from Water Resource Engineer (E. Naidoo)

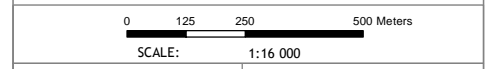
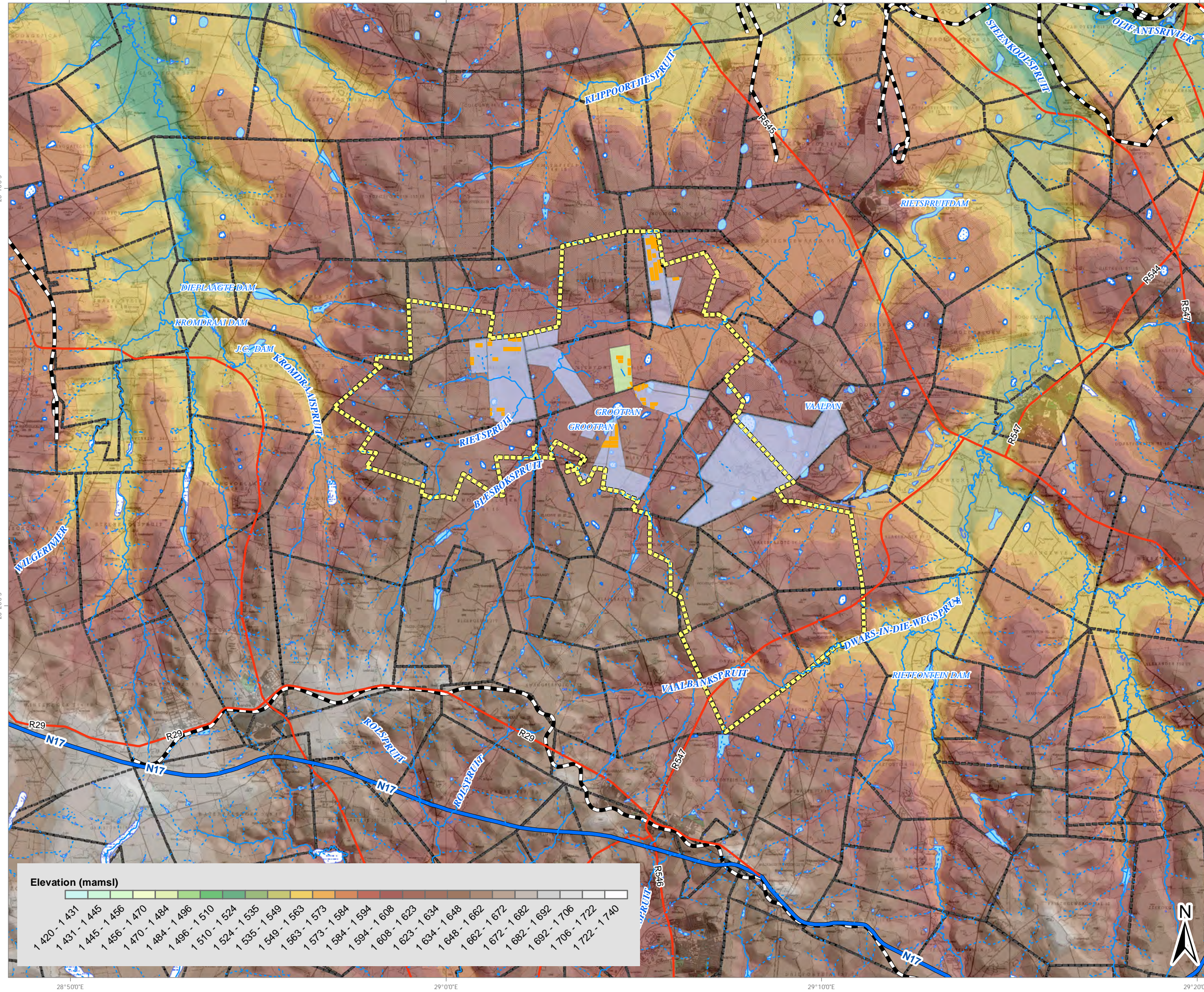


FIGURE NO.:	MAP NUMBER: 13-400-33
DRAWN BY: JF VERMEULEN GIS TECHNICIAN	REVIEWED BY: E NAIDOO WATER RESOURCE ENGINEER
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 08 DECEMBER 2015
PROJECT: STOOPING (MATLA) CLIENT: MATLA	

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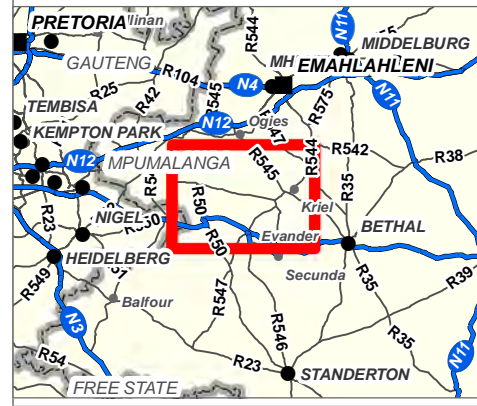


# MATLA: TOPOGRAPHY



### LEGEND

- Rivers and Streams**
  - Non-Perennial
  - Perennial
- Road Network**
  - National Route
  - Main Road
- Other Features**
  - Mine Boundary
  - Parent Farms
  - Stooping Areas
  - Eskom Holdings
  - Exxaro Holdings
- Inland Water**
  - Dams and lakes
  - Dry pans
  - Reservoirs and water tanks
  - Marsh and swamps
  - Non-perennial pans



Data Sources: Infrastructure from client  
 RSA National Geospatial Institute  
 1:50 000 Topographical series: 2528, 2529, 2628, 2629

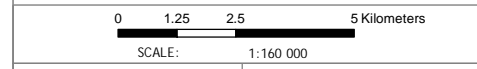
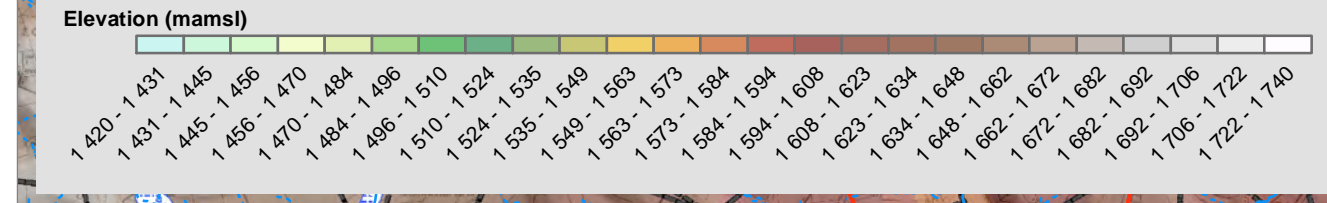


FIGURE NO.:	MAP NUMBER: 13-400-26
DRAWN BY: JF VERMEULEN GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84	DATE: 07 OCTOBER 2014
PROJECTION: GEOGRAPHIC	

PROJECT: STOOPING (MATLA)  
 CLIENT: MATLA

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28°50'0"E 29°00'0"E 29°10'0"E 29°20'0"E



# MATLA STOOPING - SWMP STRATEGY MAP (SOUTHEASTERN SECTION)



- LEGEND**
-  Flow Direction
  -  Berm
  -  Stooping Areas
  -  Subcatchments
  -  Mine Boundary
  -  Eskom Holdings
  -  EXXARO Coal Property



Data Sources: Property information from client  
 Google Earth™ mapping service: 2015  
 Imagery Date: 23/09/2015  
 SWMP from Water Resource Engineer (E. Naidoo)

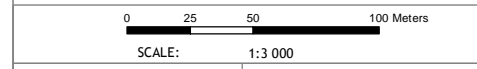


FIGURE NO.:	MAP NUMBER:	13-400-34
DRAWN BY: JF VERMEULEN GIS TECHNICIAN	REVIEWED BY: E NAIDOO WATER RESOURCE ENGINEER	
DATUM: WGS84	DATE: 08 DECEMBER 2015	
PROJECTION: GEOGRAPHIC		
PROJECT: STOOPING (MATLA)		
CLIENT: MATLA		



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26°17'00\"/>

26°17'30\"/>

26°17'40\"/>

29° 8'0\"/>

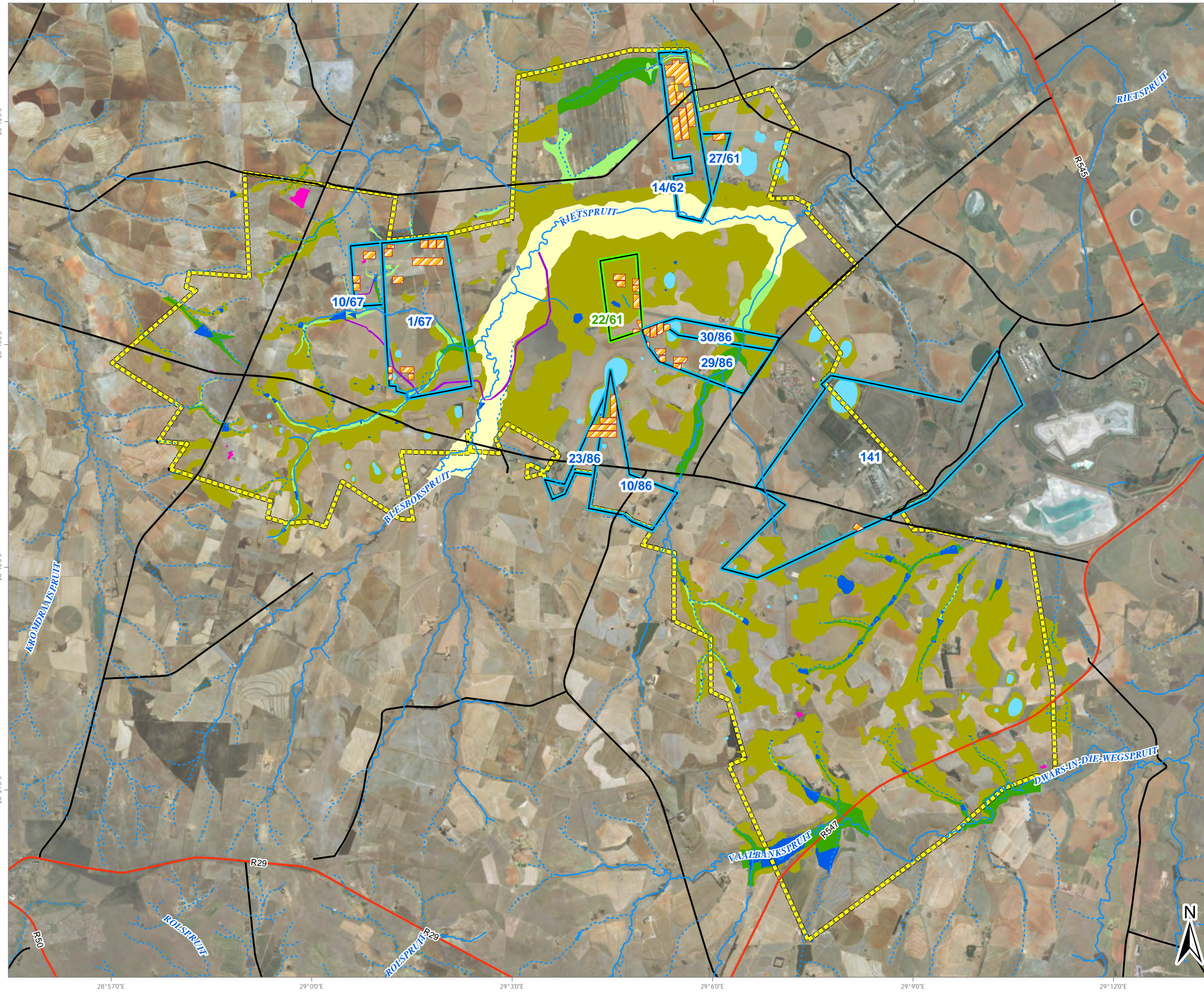
29° 8'10\"/>

29° 8'20\"/>





# MATLA - WETLANDS



**LEGEND**

**Rivers and Streams**

- Non-Perennial
- Perennial

**Road Network**

- National Route
- Main Road
- Secondary Road

**Other Features**

- Stooping Areas
- Eskom Holdings
- EXXARO Coal Property
- Mine Boundary

**Wetlands**

- Channelled valley bottom
- Dam
- Floodplain
- Hillslope seepage
- Pan
- Quarry
- River diversion
- Subsidence wetland
- Unchannelled valley bottom
- Wet area

**Data Sources:**  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services

**Scale:** 1:90 000

**Figure Information:**

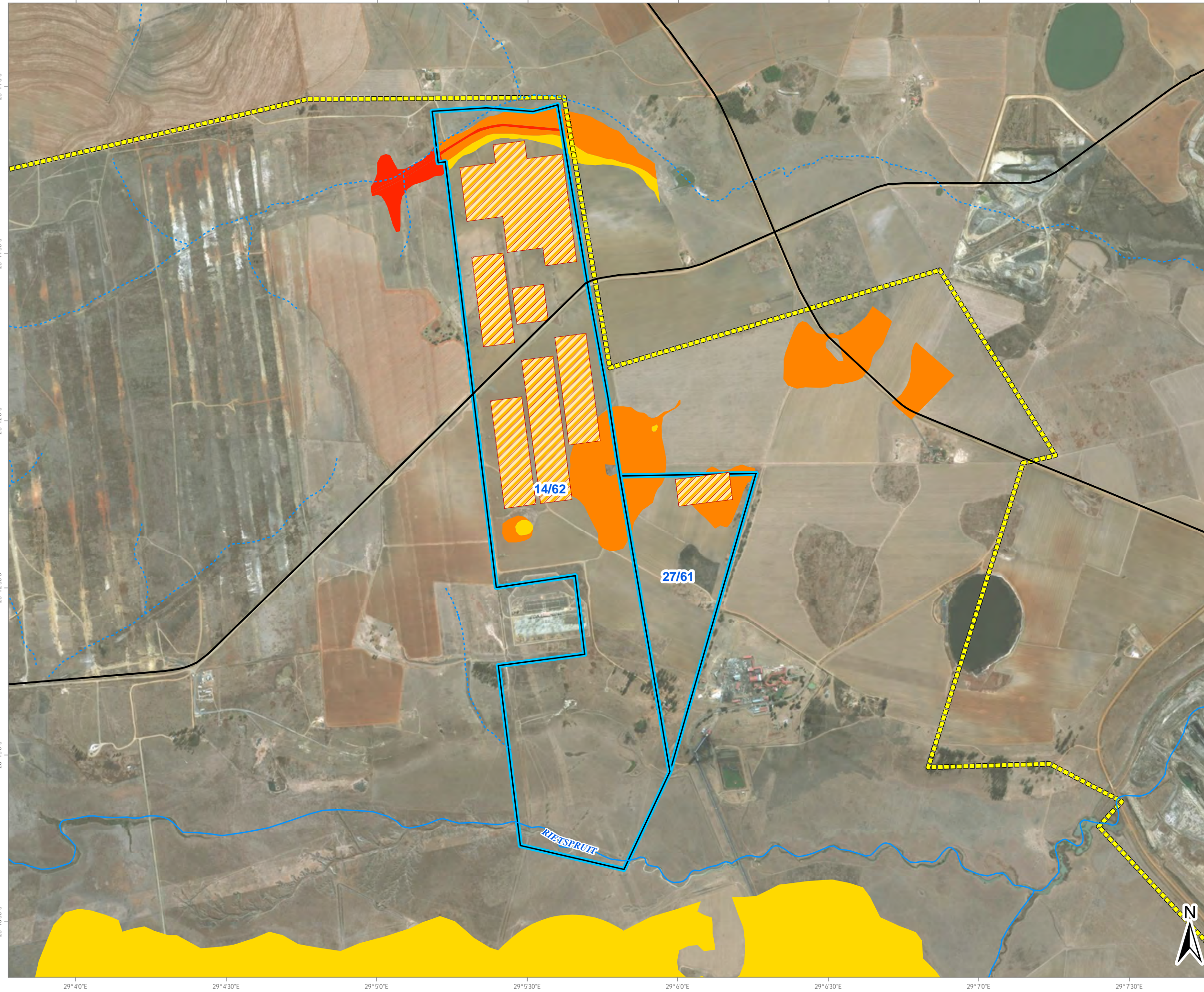
FIGURE NO.:	MAP NUMBER:
DRAWN BY: A BROWER GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 06 JULY 2018
PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL	
CLIENT: EXXARO MATLA COAL MINE	

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# MATLA - PES WETLANDS: RIETVLEI 62



**LEGEND**

**Rivers and Streams**

- Non-Perennial
- Perennial

**Road Network**

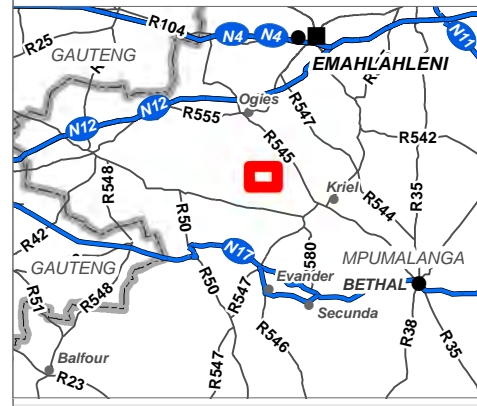
- National Route
- Main Road
- Secondary Road

**Other Features**

- Stooping Areas
- Eskom Holdings
- EXXARO Coal Property
- Mine Boundary

**PES**

- B
- C
- D
- E



Data Sources:  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services

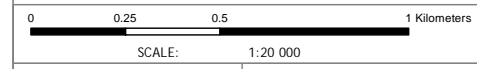


FIGURE NO.:	MAP NUMBER:	16-1208-34
DRAWN BY: A BROWER GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST	
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 06 JULY 2018	

PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL  
 CLIENT: EXXARO MATLA COAL MINE

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 Water & Environmental  
 Consultants

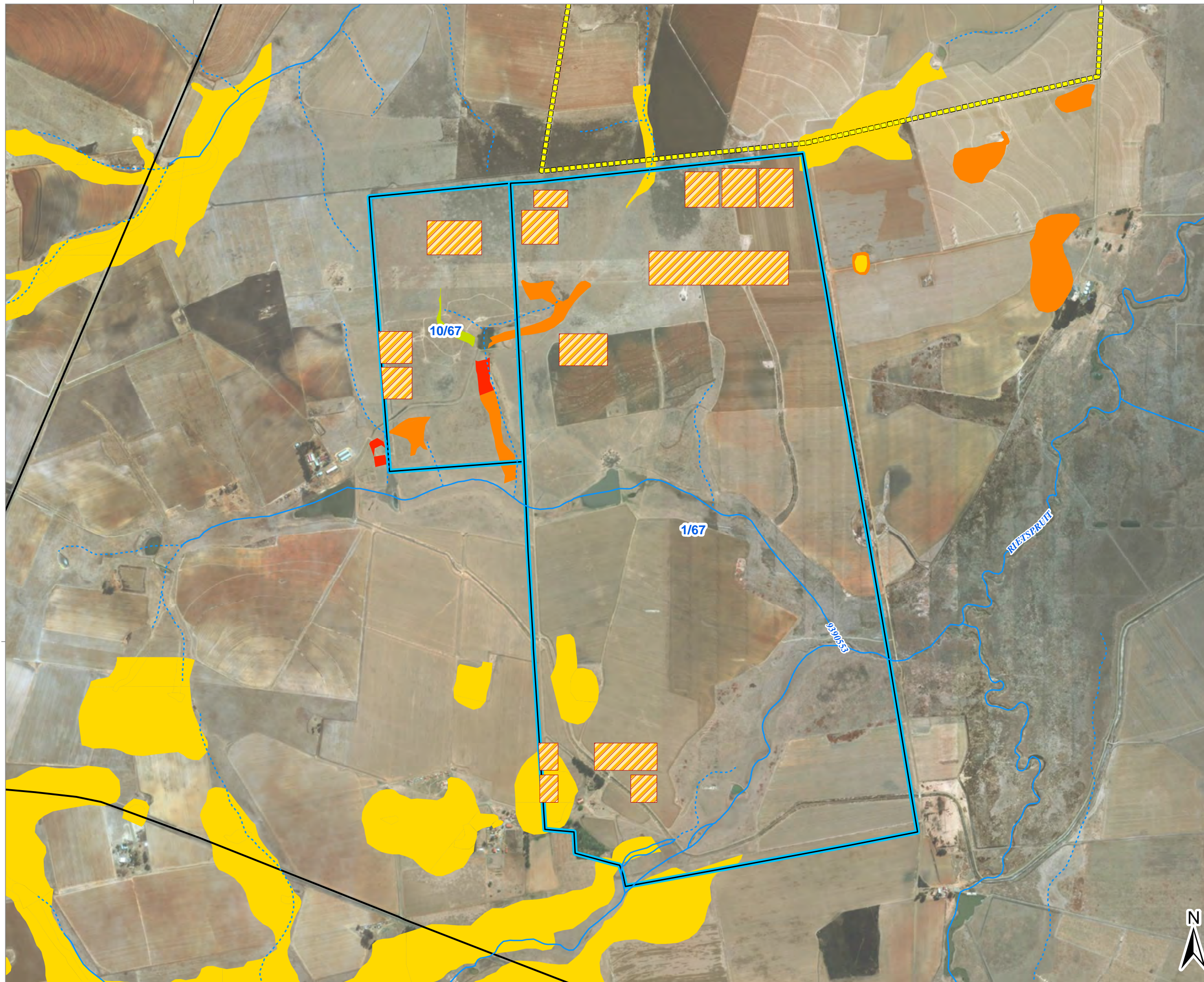
63 Wessel Road Woodmead  
 PO Box 2597 Rivonia 2128  
 South Africa  
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# MATLA - PES WETLANDS: KORTLAAGTE 67



**LEGEND**

**Rivers and Streams**

- Non-Perennial (dashed blue line)
- Perennial (solid blue line)

**Road Network**

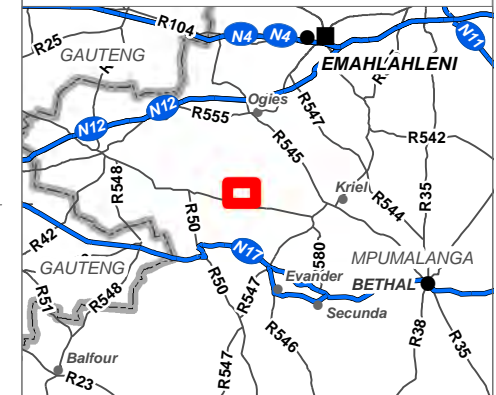
- National Route (thick blue line)
- Main Road (red line)
- Secondary Road (black line)

**Other Features**

- Stooping Areas (orange hatched rectangles)
- Eskom Holdings (blue outline)
- EXXARO Coal Property (green outline)
- Mine Boundary (dashed yellow line)

**PES**

- B (light green)
- C (yellow)
- D (orange)
- E (red)



Data Sources:  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services

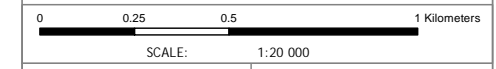


FIGURE NO.:	MAP NUMBER:
DRAWN BY: A BROWER GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 06 JULY 2018

PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL  
 CLIENT: EXXARO MATLA COAL MINE

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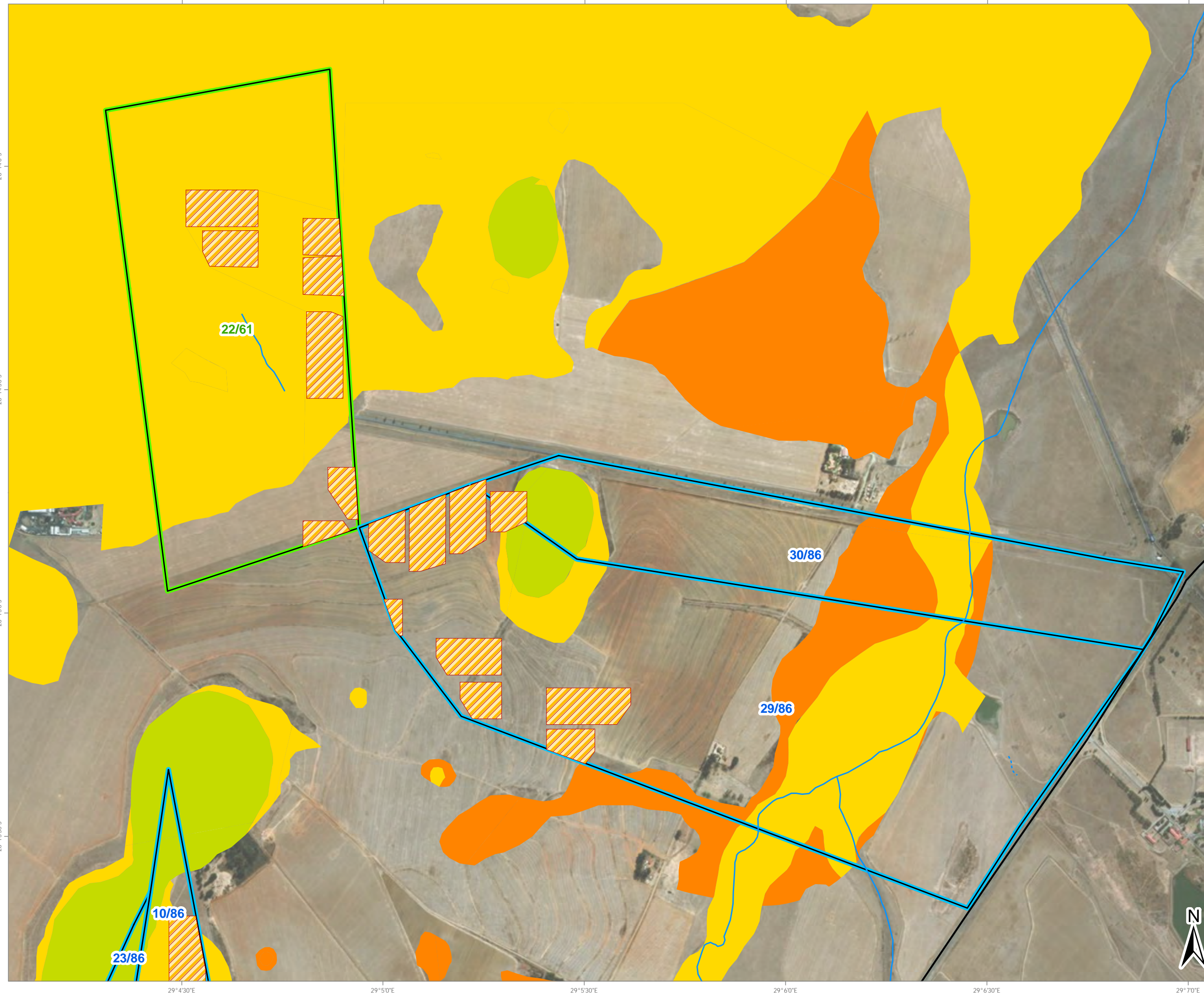
29°00'E

29°30'E





# MATLA - PES WETLANDS: VIERFONTEIN 61



**LEGEND**

**Rivers and Streams**

- Non-Perennial
- Perennial

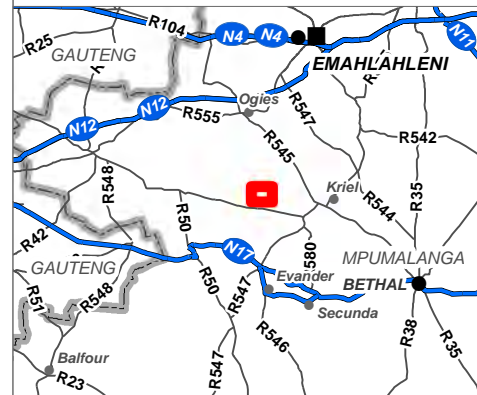
**Road Network**

- National Route
- Main Road
- Secondary Road

- Stopping Areas
- Eskom Holdings
- EXXARO Coal Property
- Mine Boundary

**PES**

- B
- C
- D
- E



Data Sources:  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services

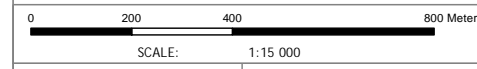


FIGURE NO.:	MAP NUMBER:
DRAWN BY: A BROWER GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 06 JULY 2018

PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL  
 CLIENT: EXXARO MATLA COAL MINE

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# MATLA - PES WETLANDS: GROOTPAN 86



**LEGEND**

**Rivers and Streams**

- Non-Perennial
- Perennial

**Road Network**

- National Route
- Main Road
- Secondary Road

- Stooping Areas
- Eskom Holdings
- EXXARO Coal Property
- Mine Boundary

**PES**

- B
- C
- D
- E

Data Sources:  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services

0 200 400 800 Meters  
 SCALE: 1:16 000

FIGURE NO.:	MAP NUMBER:
DRAWN BY: A BROWER GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 06 JULY 2018
PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL CLIENT: EXXARO MATLA COAL MINE	

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 Fax: +27 (0) 11 803 5745  
 E-mail: jhb@gcs-sa.biz  
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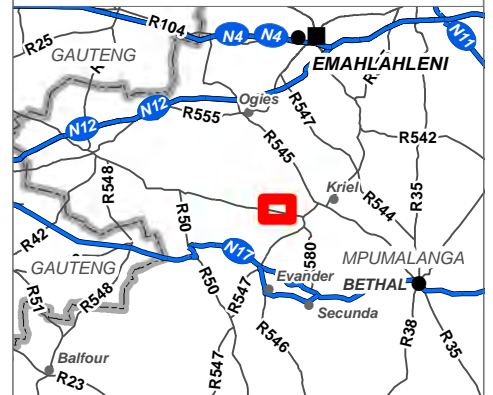


# MATLA - EIS WETLANDS: MATLA POWER STATION 141



## LEGEND

- Rivers and Streams**
  - Non-Perennial
  - Perennial
- Road Network**
  - National Route
  - Main Road
  - Secondary Road
- Stooing Areas
- Eskom Holdings
- EXXARO Coal Property
- Mine Boundary
- EIS**
  - B
  - C
  - D



Data Sources:  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services

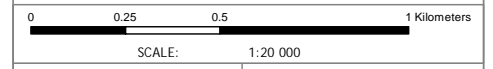


FIGURE NO.:	-	MAP NUMBER:	16-1208-41
DRAWN BY:	A BROWER GIS TECHNICIAN	REVIEWED BY:	P CHETTY GIS SPECIALIST
DATUM:	WGS84	DATE:	06 JULY 2018
PROJECTION:	GEOGRAPHIC		
PROJECT:	CONSOLIDATED EMP AND CONSOLIDATED IWUL		
CLIENT:	EXXARO MATLA COAL MINE		

**GCS**  
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 Consultants

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 E-mail: jhb@gcs-sa.biz  
 www.gcs-sa.biz



# MATLA - EIS WETLANDS: GROOTPAN 86



**LEGEND**

**Rivers and Streams**

- Non-Perennial
- Perennial

**Road Network**

- National Route
- Main Road
- Secondary Road
- Stooping Areas
- Eskom Holdings
- EXXARO Coal Property
- Mine Boundary

**EIS**

- B
- C
- D

Data Sources:  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services

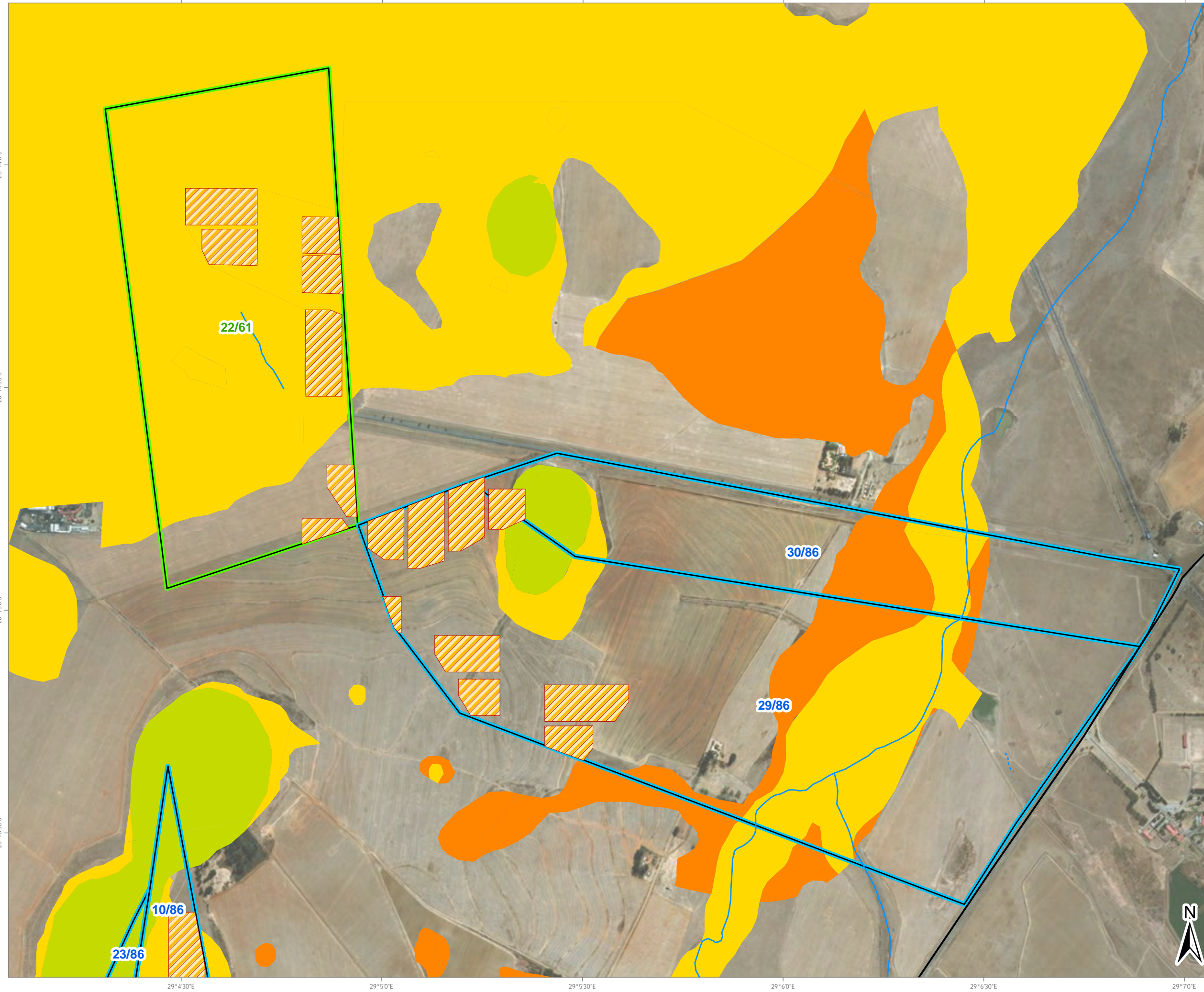
0 200 400 800 Meters  
 SCALE: 1:16 000

FIGURE NO.:	MAP NUMBER:
DRAWN BY: A BROWER GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 06 JULY 2018
PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL CLIENT: EXXARO MATLA COAL MINE	

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# MATLA - EIS WETLANDS: VIERFONTEIN 61



**LEGEND**

**Rivers and Streams**

- Non-Perennial
- Perennial

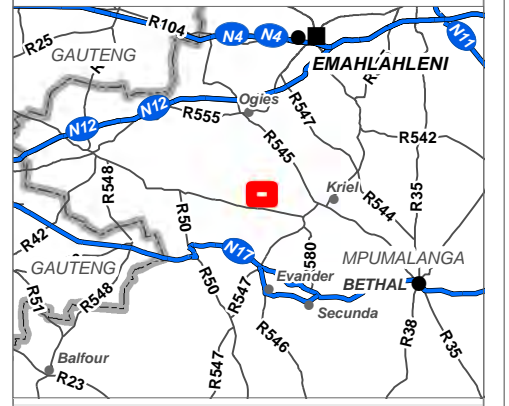
**Road Network**

- National Route
- Main Road
- Secondary Road

- Stooing Areas
- Eskom Holdings
- EXXARO Coal Property
- Mine Boundary

**EIS**

- B
- C
- D



Data Sources:  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services

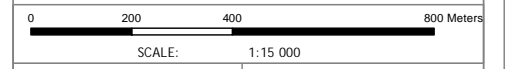


FIGURE NO.:	MAP NUMBER:	16-1208-37
DRAWN BY: A BROWER GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST	
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 06 JULY 2018	
PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL CLIENT: EXXARO MATLA COAL MINE		

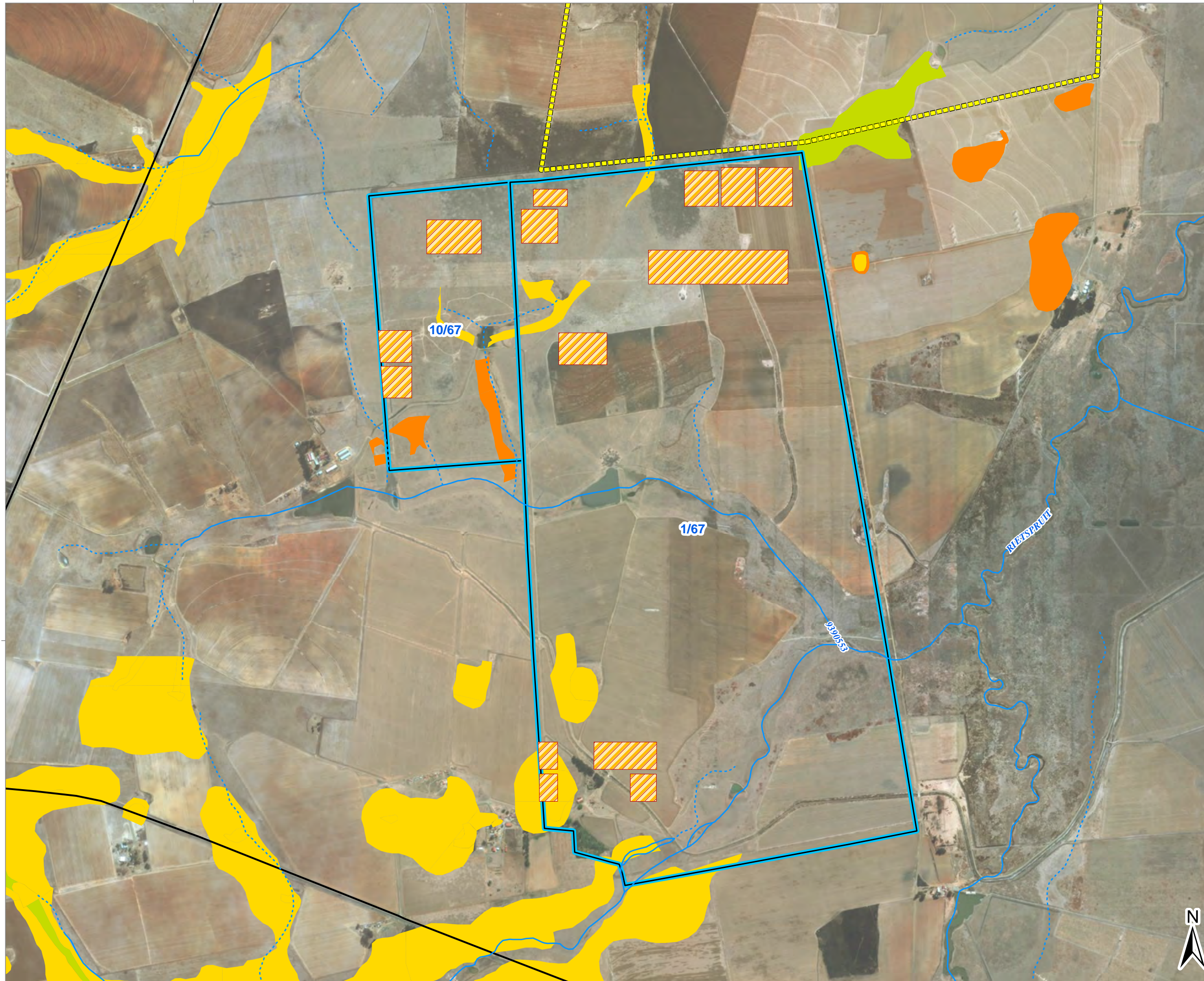
63 Wessel Road Woodmead  
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# MATLA - EIS WETLANDS: KORTLAAGTE 67



## LEGEND

### Rivers and Streams

- Non-Perennial
- Perennial

### Road Network

- National Route
- Main Road
- Secondary Road

- Stopping Areas

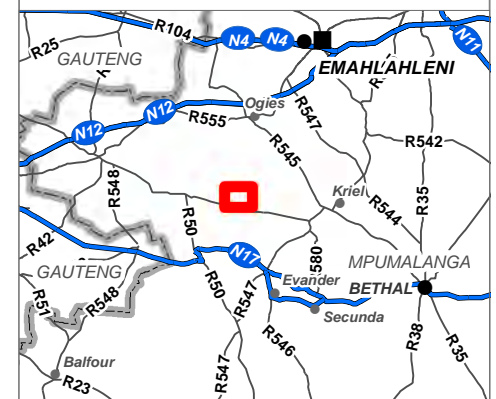
- Eskom Holdings

- EXXARO Coal Property

- Mine Boundary

### EIS

- B
- C
- D



Data Sources:  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services



SCALE: 1:20 000

FIGURE NO.: - MAP NUMBER: 16-1208-33

DRAWN BY: A BROWER GIS TECHNICIAN REVIEWED BY: P CHETTY GIS SPECIALIST

DATUM: WGS84 DATE: 06 JULY 2018

PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL  
 CLIENT: EXXARO MATLA COAL MINE

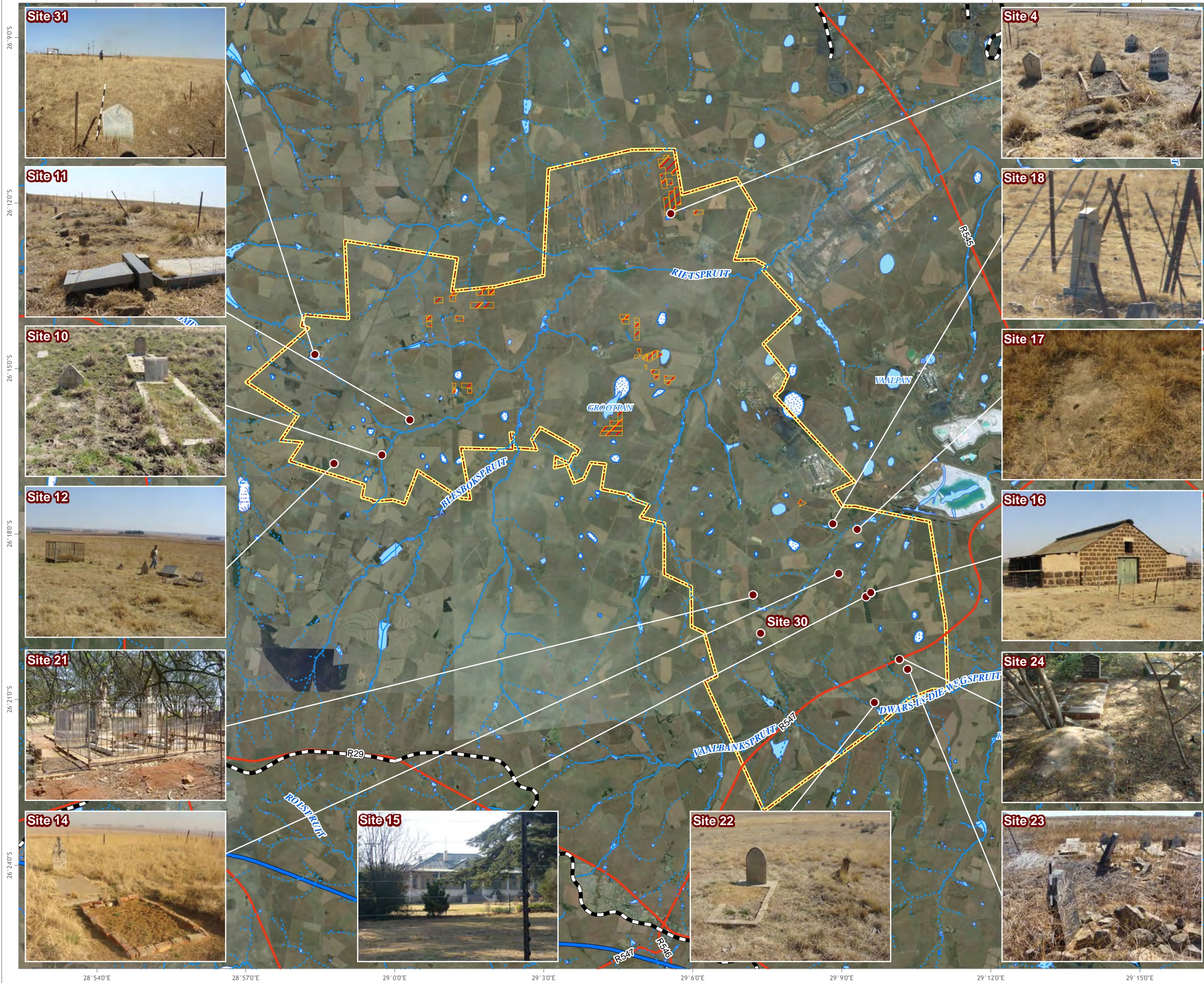
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 South Africa  
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 Fax: +27 (0) 11 803 5745  
 E-mail: jhb@gcs-sa.biz  
 www.gcs-sa.biz

29°00'E

29°30'E



# MATLA STOOPING PHASE 1 ONLY - HERITAGE SITES



**LEGEND**

- Heritage Sites
- Railway Line
- Rivers and Streams**
  - Non-Perennial
  - Perennial
- Road Network**
  - National Route
  - Main Road
  - Stooping Areas
  - Mine Boundary
- Inland Water**
  - Dams and lakes
  - Dry pans
  - Reservoirs and water tanks
  - Marsh and swamps
  - Non-perennial pans

0 1.25 2.5 5 Kilometers  
SCALE: 1:120 000

FIGURE NO.:	MAP NUMBER: 13-400-30
DRAWN BY: JF VERMEULEN GIS TECHNICIAN	REVIEWED BY: R. PANAINO ENV. CONSULTANT
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 25 AUGUST 2016
PROJECT: STOOPING (MATLA) CLIENT: MATLA	

**GCS**  
Water & Environmental Consultants

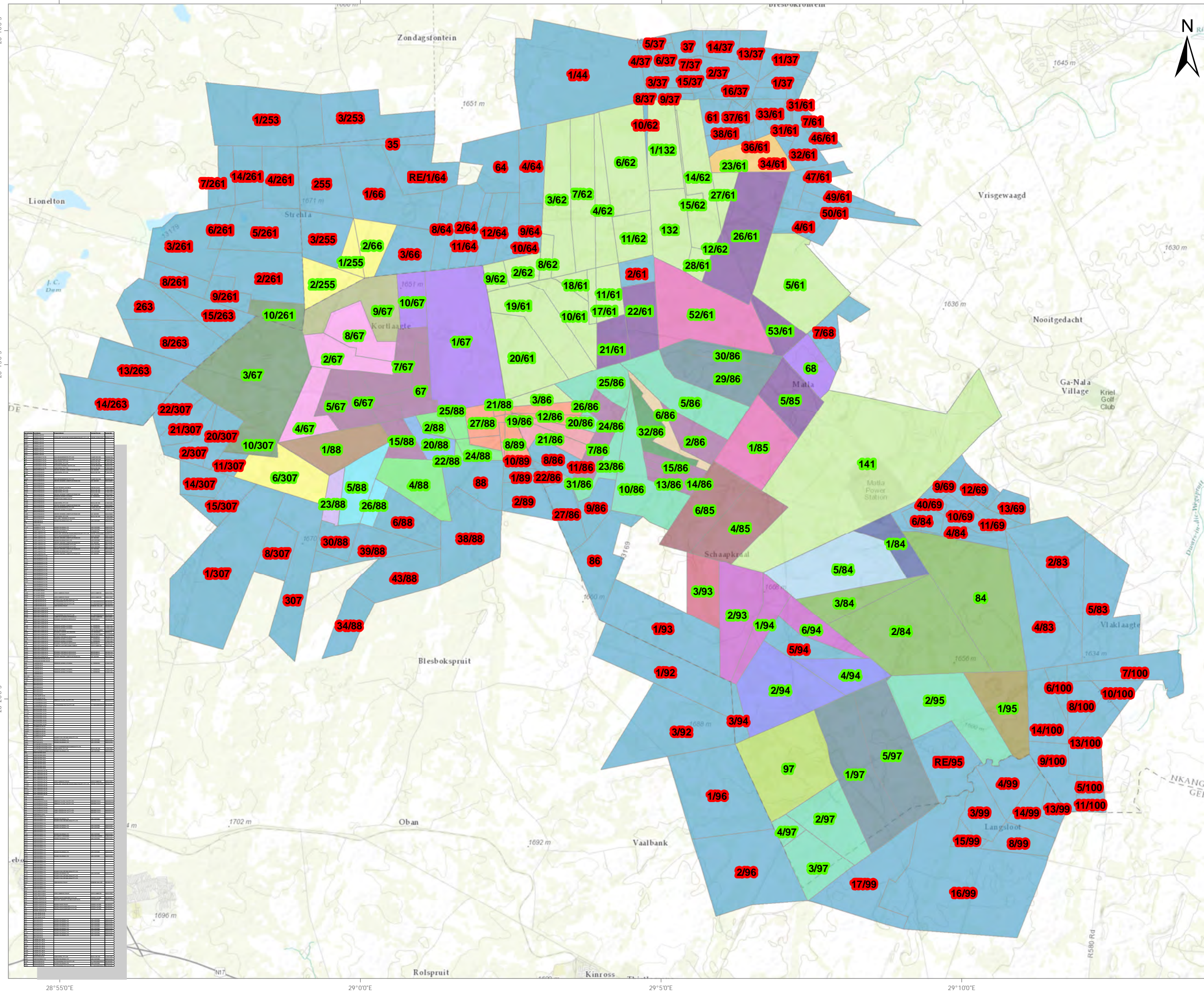
63 Wessel Road Woodmead  
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South Africa  
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Fax: +27 (0) 11 803 5745  
E-mail: jhb@gcs-sa.biz  
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26° 9'00" S  
26° 12'00" S  
26° 15'00" S  
26° 18'00" S  
26° 21'00" S  
26° 24'00" S

28° 54'0" E 28° 57'0" E 29° 0'0" E 29° 3'0" E 29° 6'0" E 29° 9'0" E 29° 12'0" E 29° 15'0" E



# MATLA: PROPERTY OWNERS



## LEGEND

- Property Owners**
- BAKENLAAGTE BOERDERY PTY LTD
  - BAKENLAAGTE TRUST
  - BOSHOFF ANDRIES JACOBUS GUSTAVUS
  - CAMERON JOHN BENJAMIN ROBERT
  - CAMERON SUSANNA PETRONELLA
  - ERASMUS CASPER JAN HENDRIK
  - ERASMUS HERMANUS ARNOLDUS
  - ESKOM HOLDINGS LTD
  - ESKOM HOLDINGS SOC LTD
  - EXXARO COAL MPUMALANGA PTY LTD
  - FERREIRA GESINA JOHANNA
  - HOOGLAND GRAAN BELEGINGSMAATSKAPPY PTY LTD
  - JOHN CAMERON TRUST
  - KILIAN HENDRIK JACOBUS
  - KORTLAAGTE BOERDERY PTY LTD
  - N EXCESS TRADING 128 PTY LTD
  - OCTO CONSORNIUM BELEGINGS PTY LTD
  - OMNIPACT S A INV 194 PTY LTD
  - PAULANA BOERDERY PTY LTD
  - PLATINUM MILE INV 524 PTY LTD
  - PLATINUM MILE INV 535 PTY LTD
  - PLATINUM MILE INV 537 PTY LTD
  - ROBERTSON FAMILIE TRUST
  - SCHWARTZ THEODORE
  - STEYN DINA MARIA
  - TIGER STRIPES INV 32 PTY LTD
  - VENTER HENDRIK JOSEPHUS FRANCOIS
  - VIERFONTEIN TRUST
  - VOSTOFFEL PTY LTD
  - WALT ABEL HERMANUS VAN DER
  - WENSPAN PLASE CC



Data Sources:

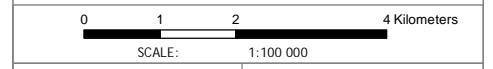


FIGURE NO.:	MAP NUMBER: 13-400
DRAWN BY: S.M MNGOMEZULU GIS TECHNOLOGIST	REVIEWED BY: A. J. MAIN GIS SPECIALIST
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 21 AUGUST 2014

PROJECT: MATLA  
CLIENT:

**GCS**  
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# MATLA: SITE NOTICE LAYOUT



**LEGEND**

- Site Notice Locations
- TOWNS

**Road Network**

- National Route
- Main Road
- Mine Boundary

N

Data Sources:  
Google Earth™ mapping service: 2016  
Imagery Date: 30/06/2017

0 2.5 5 10 Kilometers

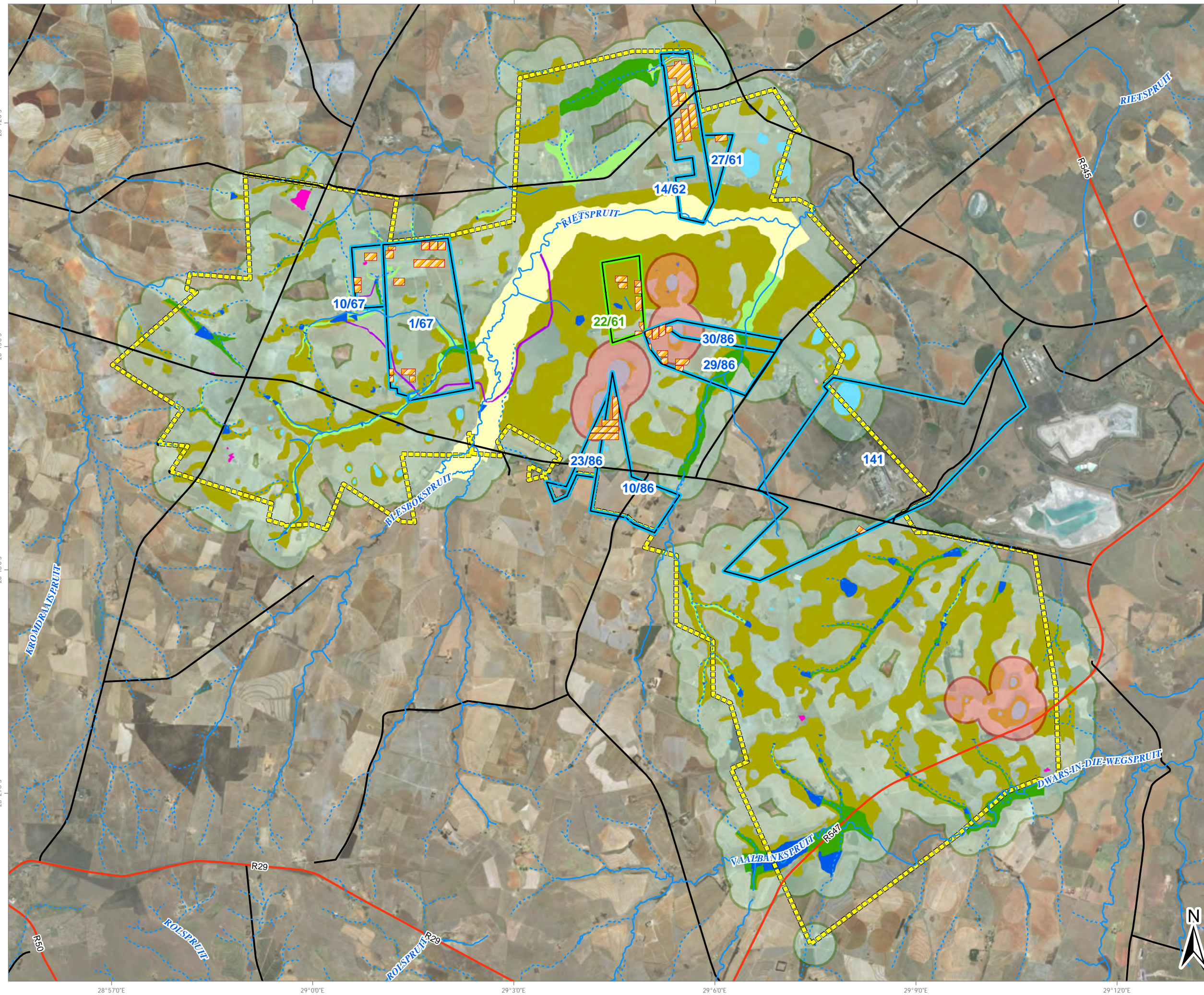
SCALE: 1:250 000

FIGURE NO.:	MAP NUMBER: 16-1208-22
DRAWN BY: P CHETTY GIS SPECIALIST	REVIEWED BY: R. PANAINO ENV. CONSULTANT
DATUM: WGS84	DATE: 28 NOVEMBER 2017
PROJECTION: GEOGRAPHIC	
PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL	
CLIENT: EXXARO MATLA COAL MINE	

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# MATLA - IMPACT STATEMENT



**LEGEND**

**Rivers and Streams**

- Non-Perennial
- Perennial

**Road Network**

- National Route
- Main Road
- Secondary Road
- Stopping Areas
- Eskom Holdings
- EXXARO Coal Property
- Mine Boundary
- No Go Areas

**Wetlands**

- Channelled valley bottom
- Dam
- Floodplain
- Hillslope seepage
- Pan
- Quarry
- River diversion
- Subsidence wetland
- Unchannelled valley bottom
- Wet area
- Wetlands 500 m Buffer

**Inset Map:** Shows the location of the study area within the Gauteng and Mpumalanga provinces, highlighting the Matla region in a red box. Key locations include Gauteng, Emaahlaheni, and Bethal.

**Data Sources:**  
 Imagery: ESRI Basemap  
 Wetlands data supplied by Wetland Consulting Services  
 No Go Areas from Senior Environmental Consultant (R. Panaino)

**Scale:** 1:90 000

FIGURE NO.:	MAP NUMBER:
DRAWN BY: A BROWER GIS TECHNICIAN	REVIEWED BY: P CHETTY GIS SPECIALIST
DATUM: WGS84 PROJECTION: GEOGRAPHIC	DATE: 12 JULY 2018
PROJECT: CONSOLIDATED EMP AND CONSOLIDATED IWUL	
CLIENT: EXXARO MATLA COAL MINE	

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