








**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
CRITICAL BIODIVERSITY AREAS**

**Legend**

-  National Route
-  400kV OHL (existing)
-  Rivers
-  132kV OHL (part of a separate BA application)
-  LILO
-  MTS
-  Ujekamanzi WEF 1 Application Site

**CBA Classification**

-  PA National Parks & Nature Reserves
-  PA Protected Environment: Natural
-  PA Protected Environment: Modified
-  CBA Irreplaceable
-  CBA Optimal
-  ESA Landscape corridor
-  ESA Local corridor
-  ESA Species Specific
-  Other Natural Areas
-  Moderately modified- Old lands
-  Heavily modified

Source:  
NFEPA, 2011  
ESKOM, 2012  
MPUMALANGA BIODIVERSITY SPATIAL PLAN, 2017

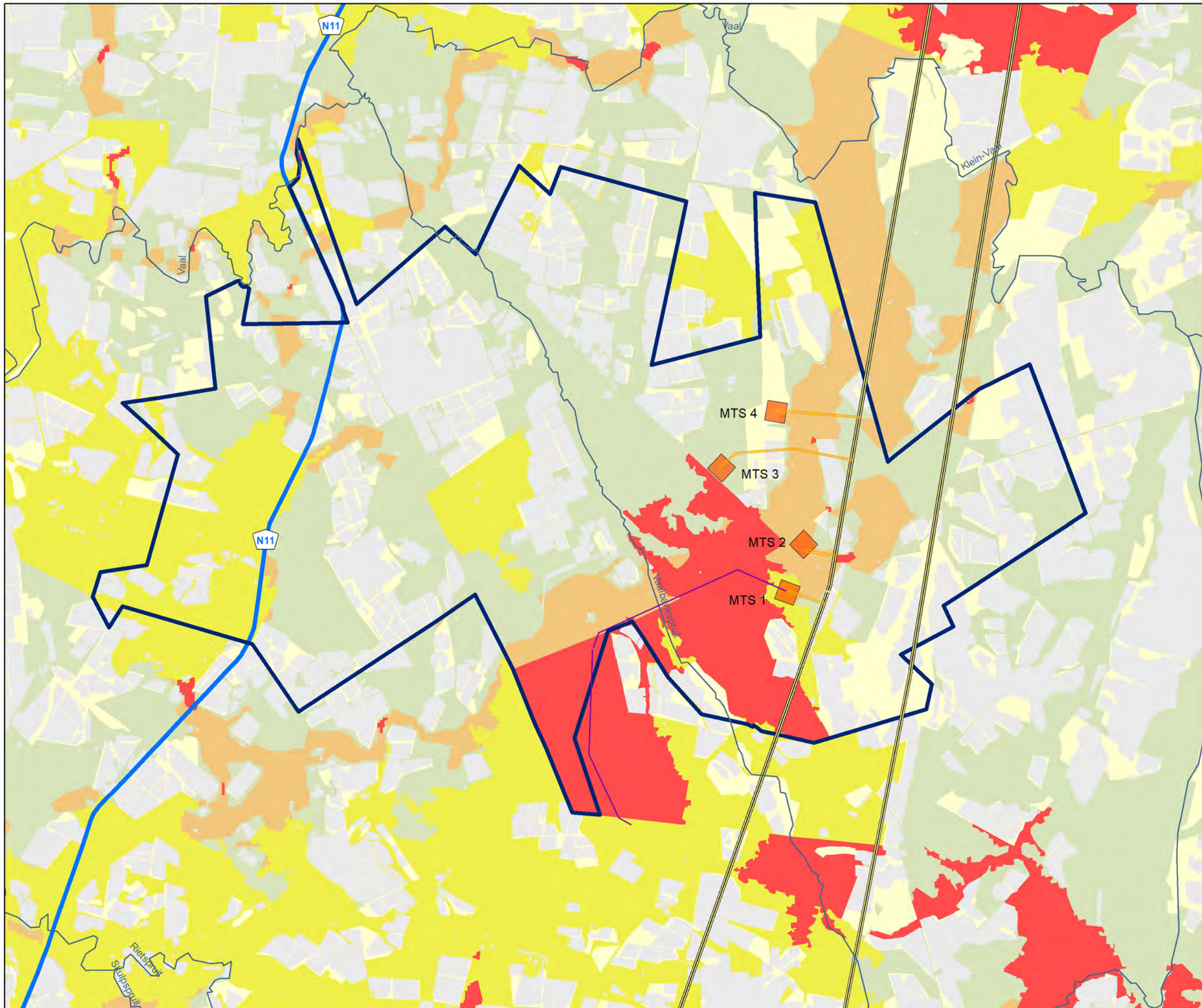


**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320  
Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za

<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 24/01/2023
<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b> 









"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

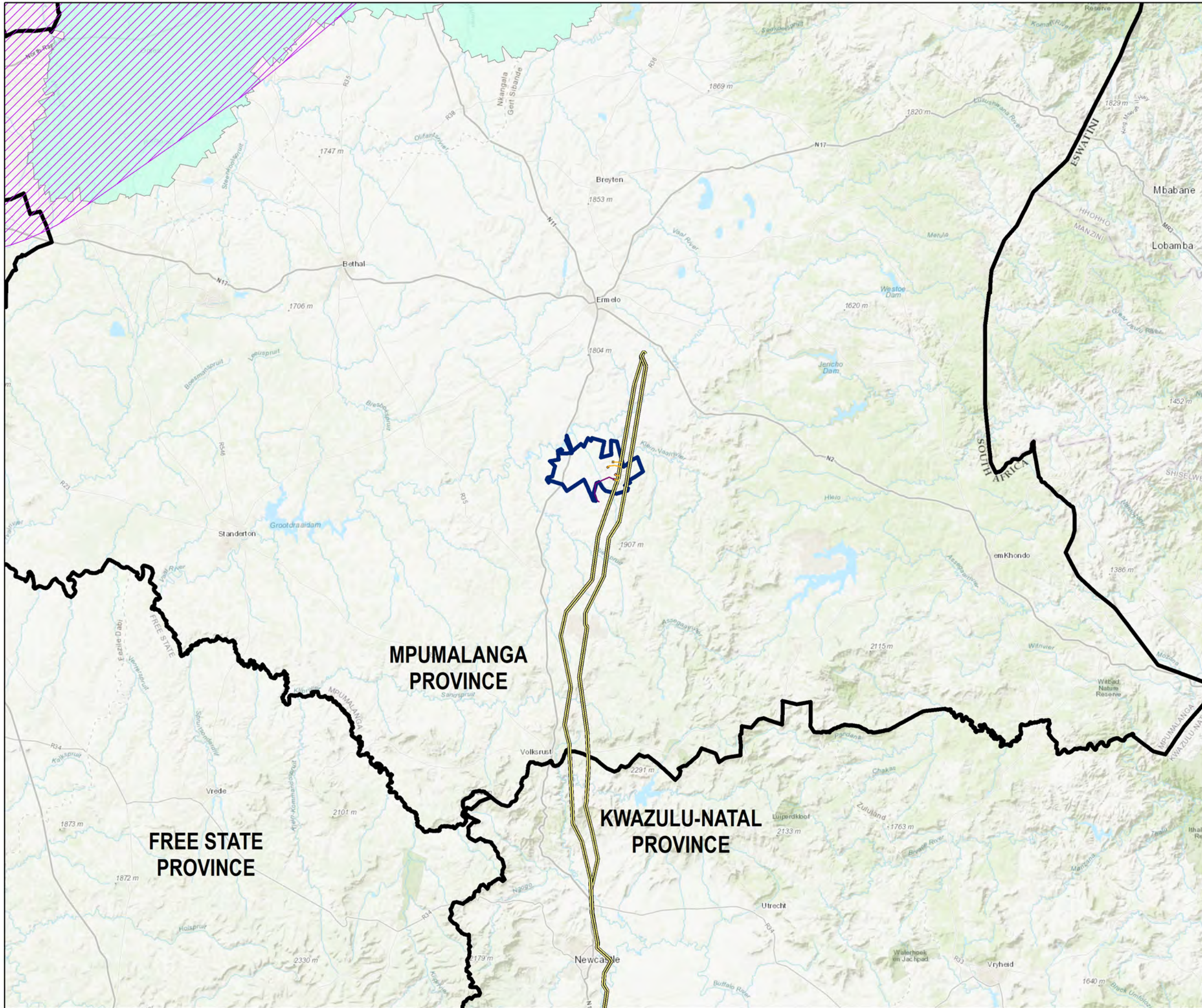
THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT



**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
EGI & REDZ**

**Legend**

-  Provincial Boundary
-  REDZ9 Emalahleni
-  Internal Corridor
-  400kV OHL (existing)
-  132kV OHL (part of a separate BA application)
-  LILO
-  MTS
-  Ujekamanzi WEF 1 Application Site



Source:  
NGI, 2014  
DFFE, 2022



0 5.5 11  
Kilometers



**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320  
Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za








<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 15/05/2023
<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b>

"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT

**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
LANDCOVER CLASSIFICATION**

**Legend**

-  National Route
-  400kV OHL (existing)
-  Rivers
-  132kV OHL (part of a separate BA application)
-  MTS
-  LILO
-  Ujekamanzi WEF 1 Application Site

**Landcover Classification**

-  Barren Land
-  Built-Up Areas
-  Cultivated Land
-  Forested Land
-  Grassland
-  Shrubland
-  Wetlands / Waterbodies

Source:  
NFEPA, 2011  
SANBI, 2018  
ESKOM, 2012

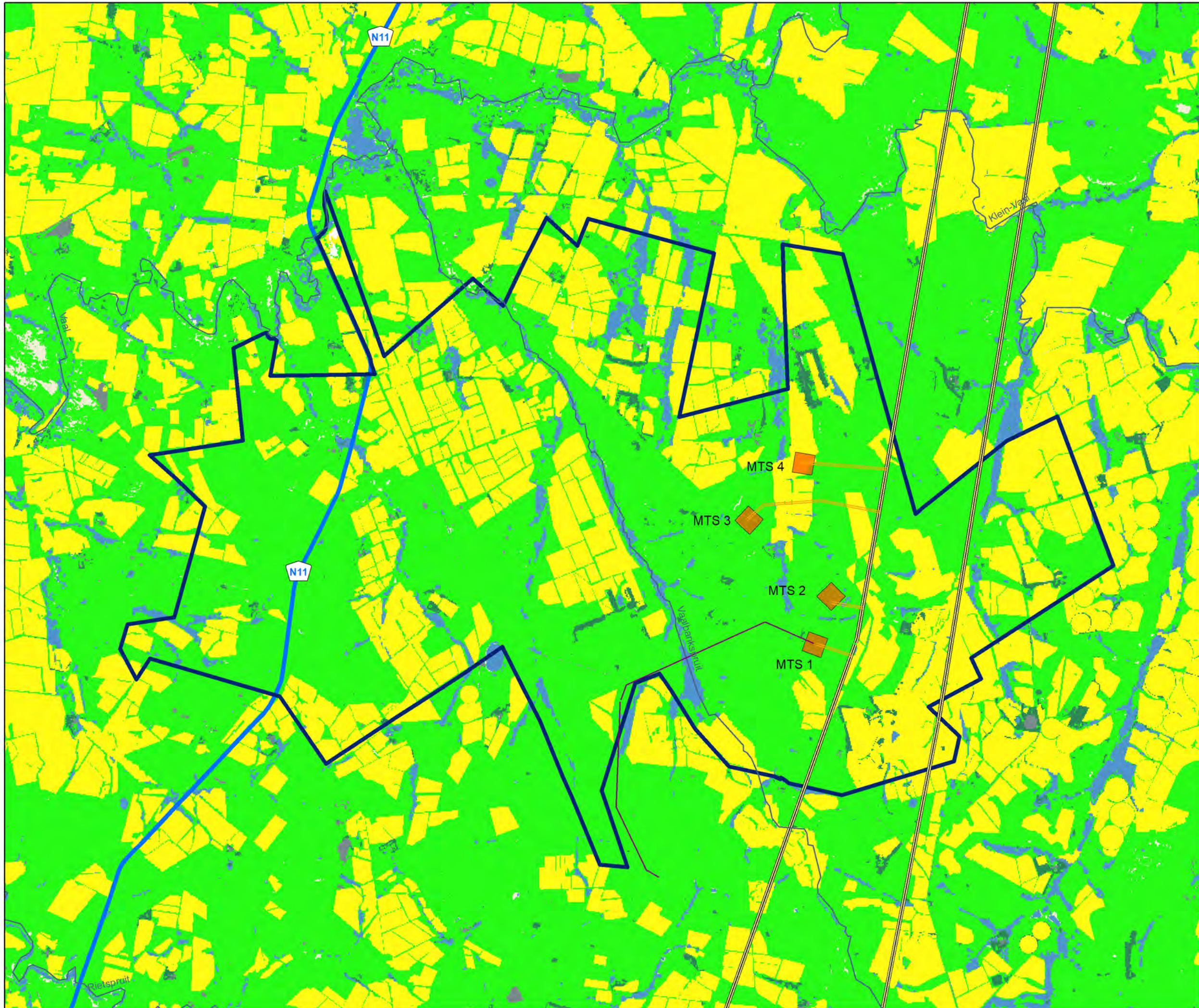


**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320  
Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za

<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 24/01/2023
<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b>

"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT



**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
SENSITIVITY LAYOUT**


**Legend**

-  400kV OHL (existing)
-  132kV OHL (part of a separate BA application)
-  LILO
-  MTS
-  Ujekamanzi WEF 1 Application Site

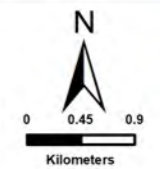
**Environmental Sensitivities (No-Go)**

-  Agriculture
-  Aquatic
-  Avifauna
-  Bat
-  BESS
-  Heritage
-  Terrestrial
-  Visual

**Environmental Sensitivities**

-  Avifauna

Source:  
NGI, 2014  
ESKOM, 2012

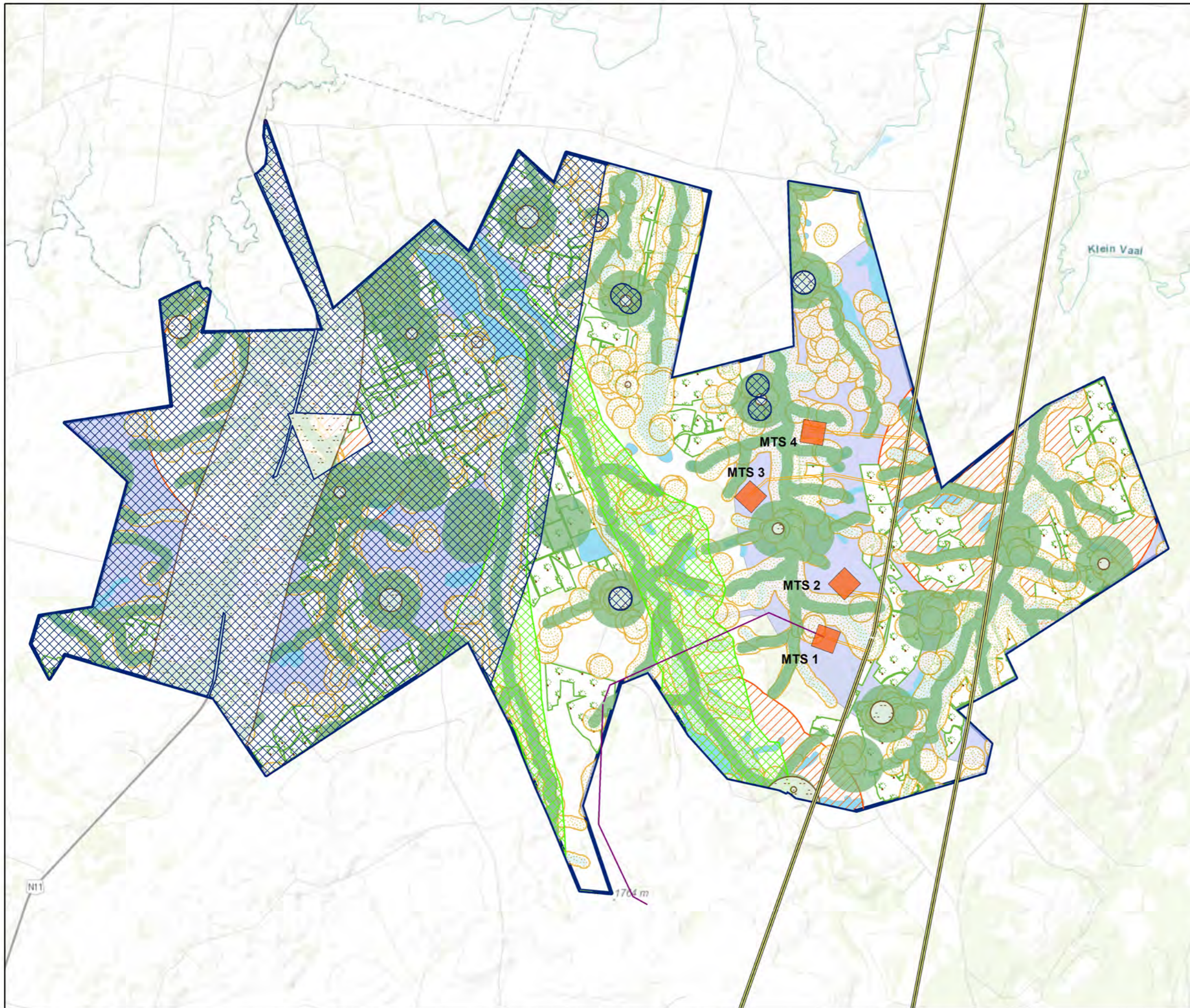


**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320  
Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za

<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 05/06/2023
<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b>






"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

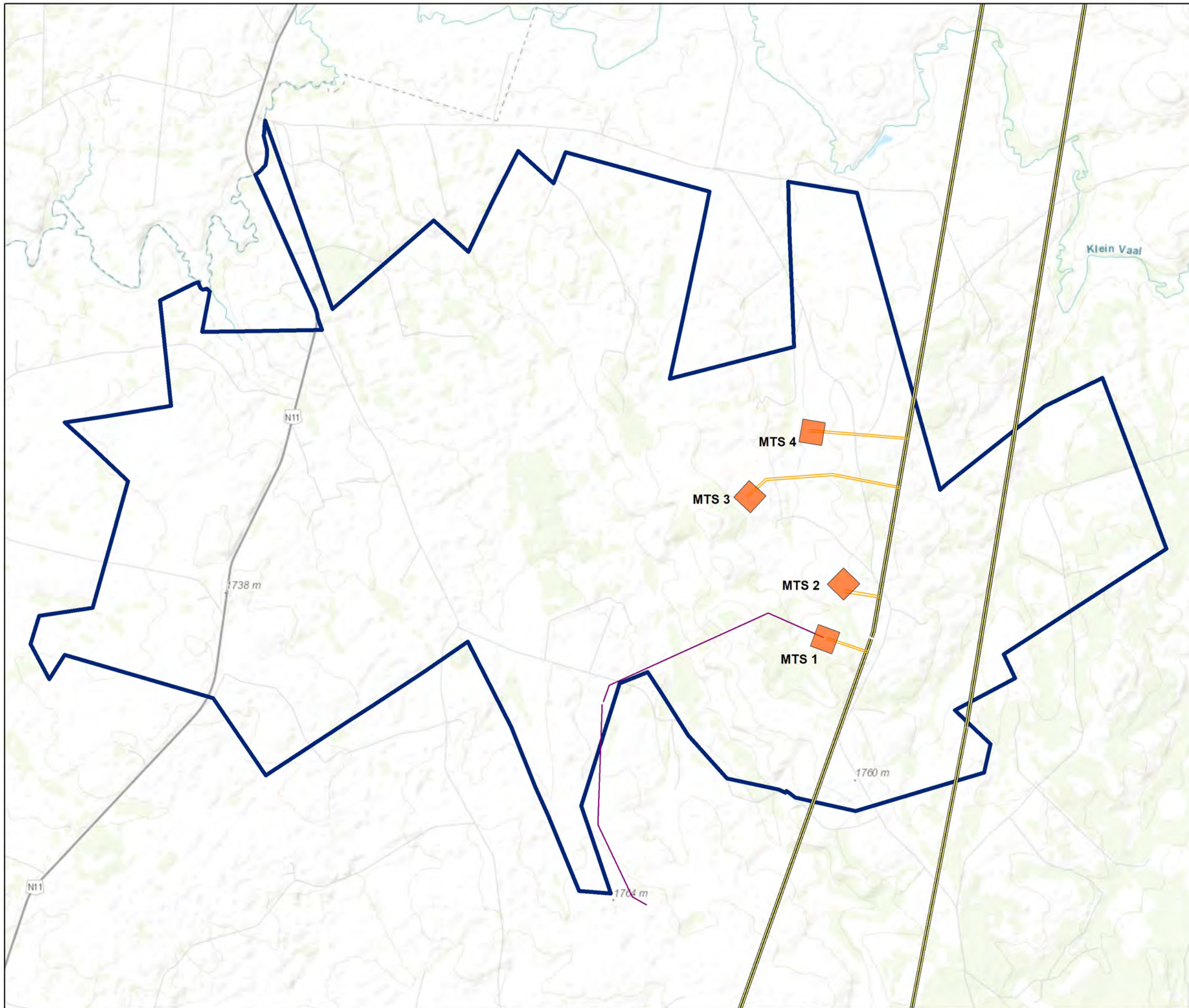
THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT



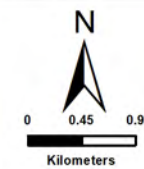
**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
PROPOSED LAYOUT**

**Legend**

-  400kV OHL (existing)
-  132kV OHL (part of a separate BA application)
-  LILO
-  MTS
-  Ujekamanzi WEF 1 Application Site



Source:  
NGI, 2014  
ESKOM, 2012



**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320  
Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za










<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 11/05/2023
<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b> 

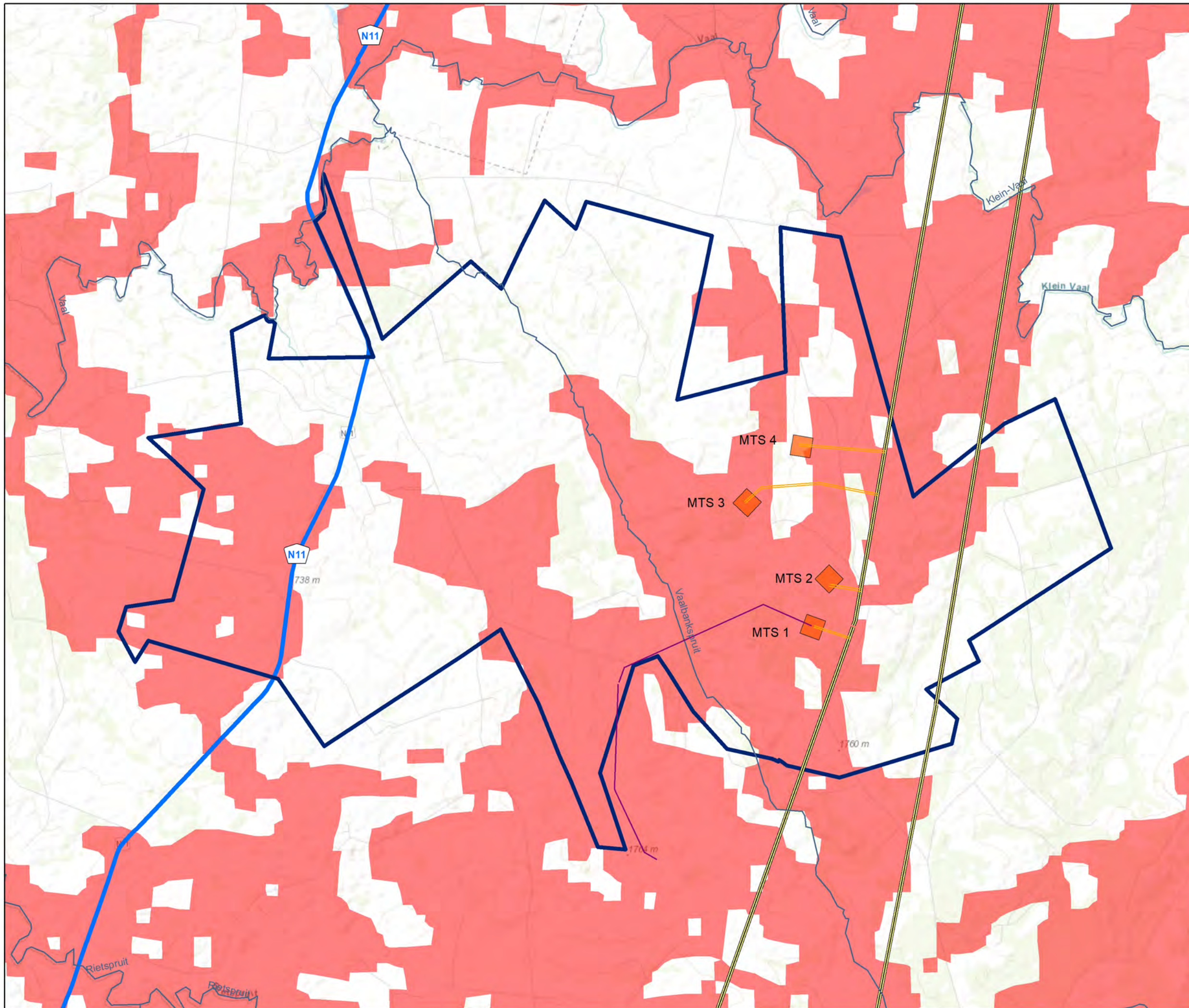
"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT

**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
PROTECTED AREAS**

**Legend**

-  National Route
-  400kV OHL (existing)
-  Rivers
-  Protected Areas
-  NPAES
-  132kV OHL (part of a separate BA application)
-  LILO
-  MTS
-  Ujekamanzi WEF 1 Application Site



Source:  
NFEPA, 2011  
DFFE, 2022  
ESKOM, 2012



**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320  
Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za

<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 24/01/2023
<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b>

"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT

**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE**  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
REGIONAL CONTEXT

**Legend**

-  Main Towns
-  National Route
-  Arterial Route
-  400kV OHL (existing)
-  Provincial Boundary
-  Local Municipal Boundaries
-  132kV OHL (part of a separate BA application)
-  LILO
-  MTS
-  Ujekamanzi WEF 1 Application Site



Source:  
NGI, 2014  
MUNICIPAL DEMARICATION BOARD, 2016

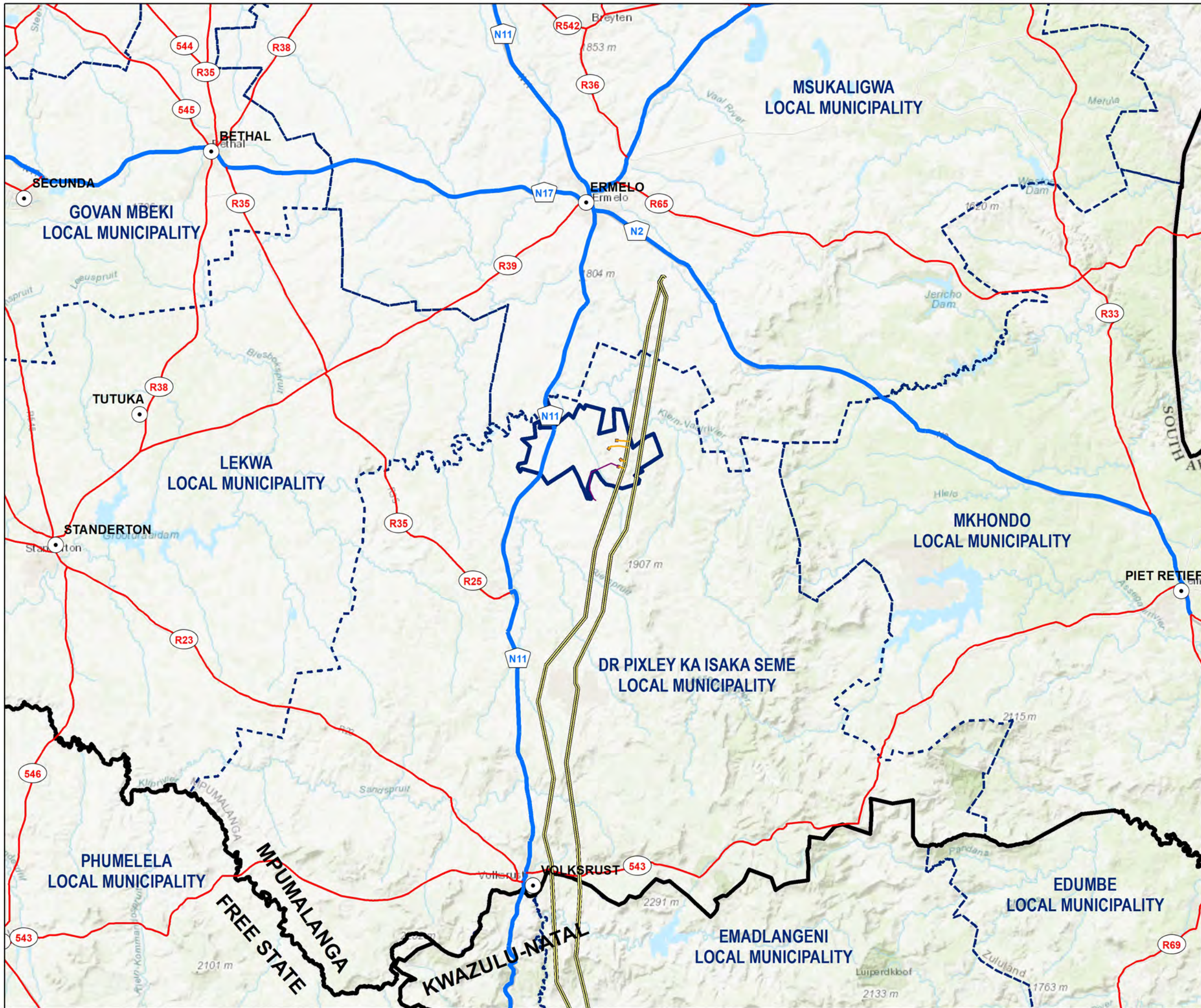


**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320  
Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za

Project No 18395	Prepared By SB	Date 15/05/2023
Map Ref No 18395	Revision 0	Date











"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT



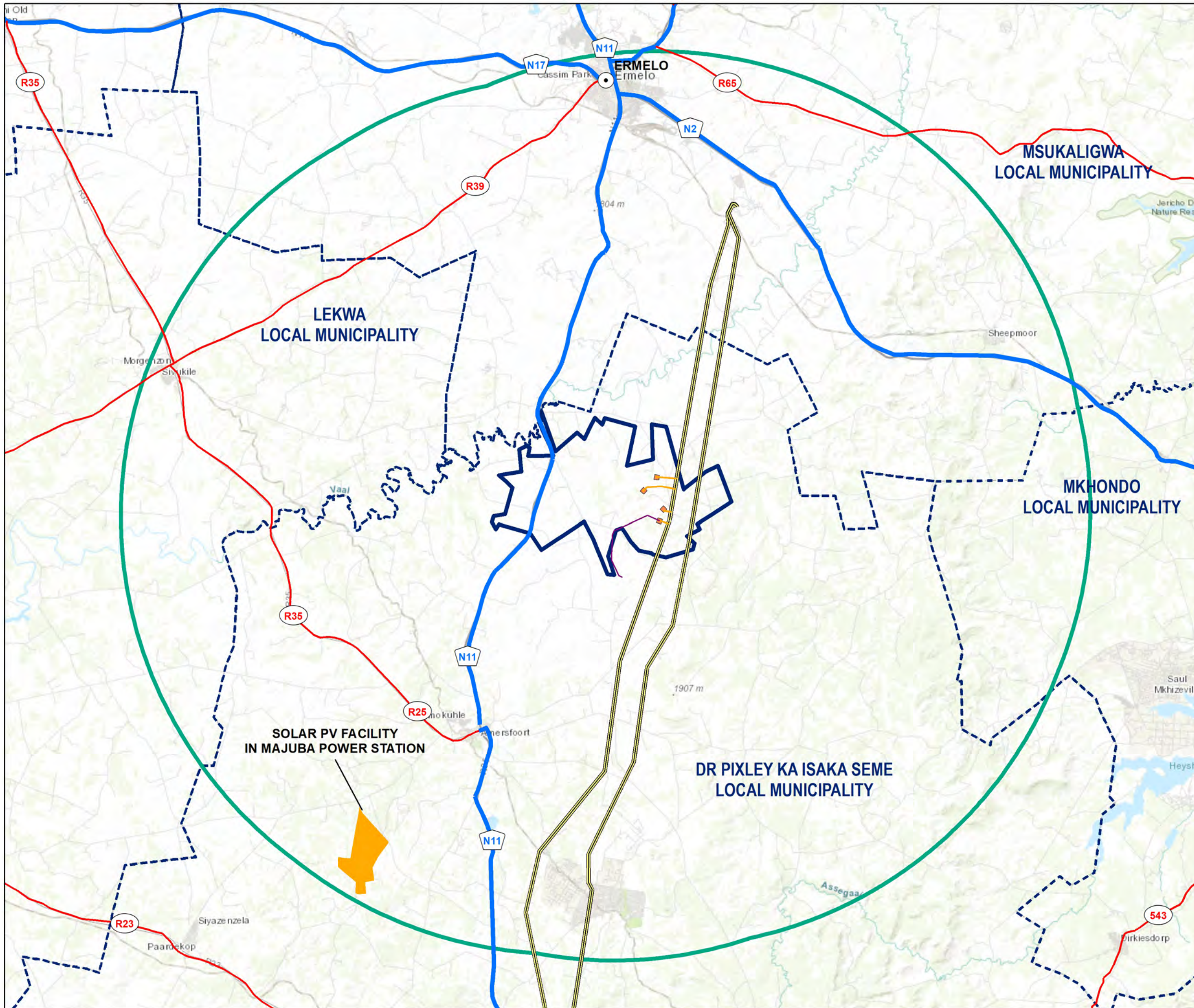
**ABO UJEKAMANZI WIND ENERGY FACILITIES AND ASSOCIATED INFRASTRUCTURE WITHIN THE DR PIXLEY KA ISAKA SEME LOCAL MUNICIPALITY, MPUMALANGA PROVINCE RENEWABLE ENERGY PROJECTS (EXISTING AND PROPOSED)**

**Legend**

-  Main Towns
-  National Route
-  Arterial Route
-  400kV OHL (existing)
-  Local Municipal Boundaries
-  132kV OHL (part of a separate BA application)
-  LILO
-  Proposed Substations and Alternatives
-  Ujekamanzi WEF 1 Application Site
-  35km Radius

**Renewable Energy Application Sites**

-  Solar PV



Source:  
 NGI, 2014  
 DFFE, 2022  
 MUNICIPAL DEMARCATION BOARD, 2016



**ENVIRONMENTAL DIVISION**  
 4 PENCARROW CRESCENT  
 LA LUCIA RIDGE OFFICE ESTATE  
 UMHLANGA ROCKS  
 4320  
 Phone: +27 31 581 1500  
 Fax: +27 31 581 2371  
 e-mail: info@sivest.co.za

<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 13/04/2023
<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b>


"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT









**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
SENSITIVITY LAYOUT**


**Legend**

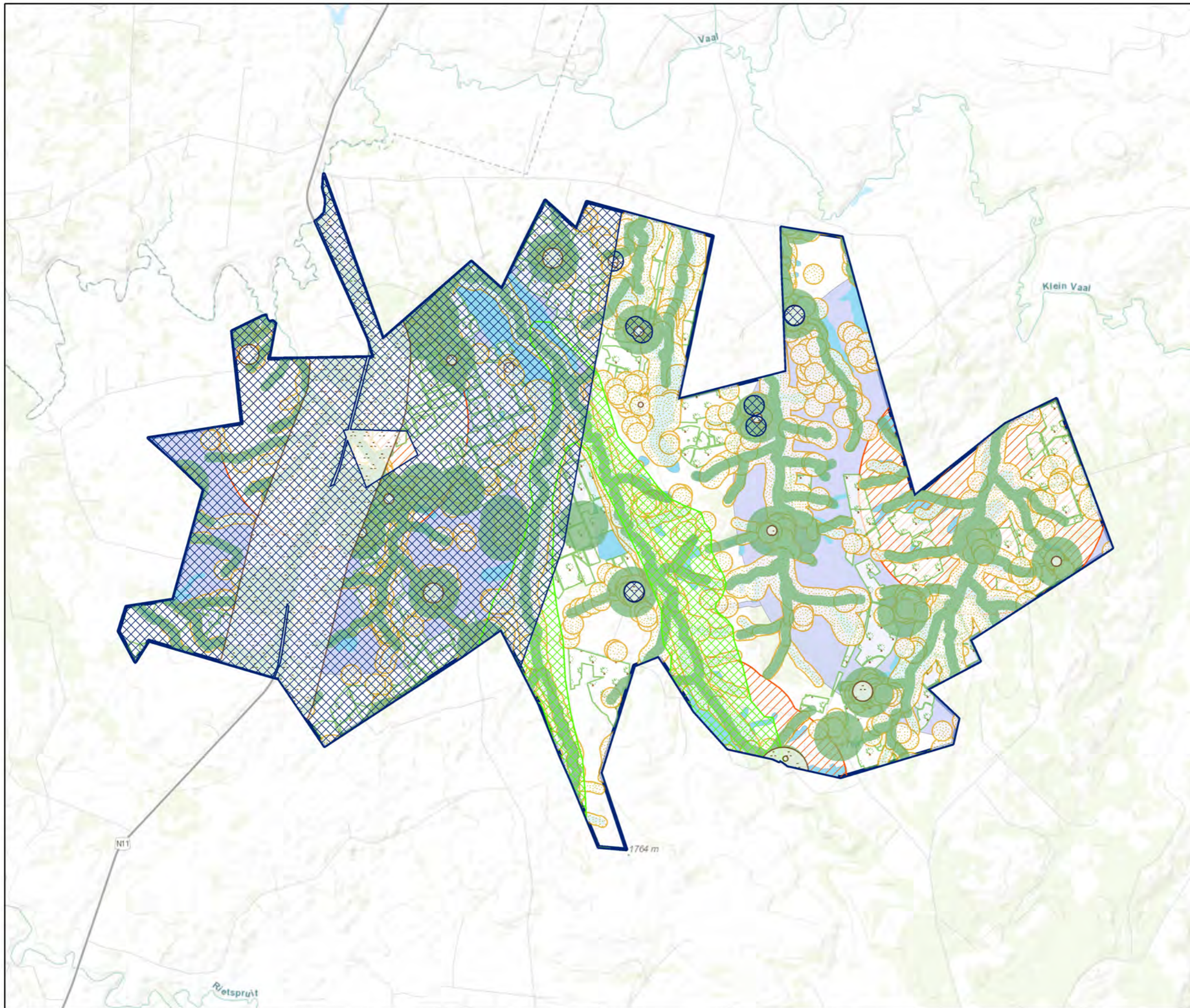
 Ujekamanzi WEF 1 Application Site

**Environmental Sensitivities (No-Go)**

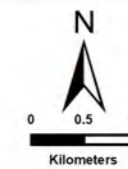
-  Agriculture
-  Aquatic
-  Avifauna
-  Bat
-  BESS
-  Heritage
-  Terrestrial
-  Visual

**Environmental Sensitivities**

 Avifauna



Source:  
NGI, 2014  
ESKOM, 2012



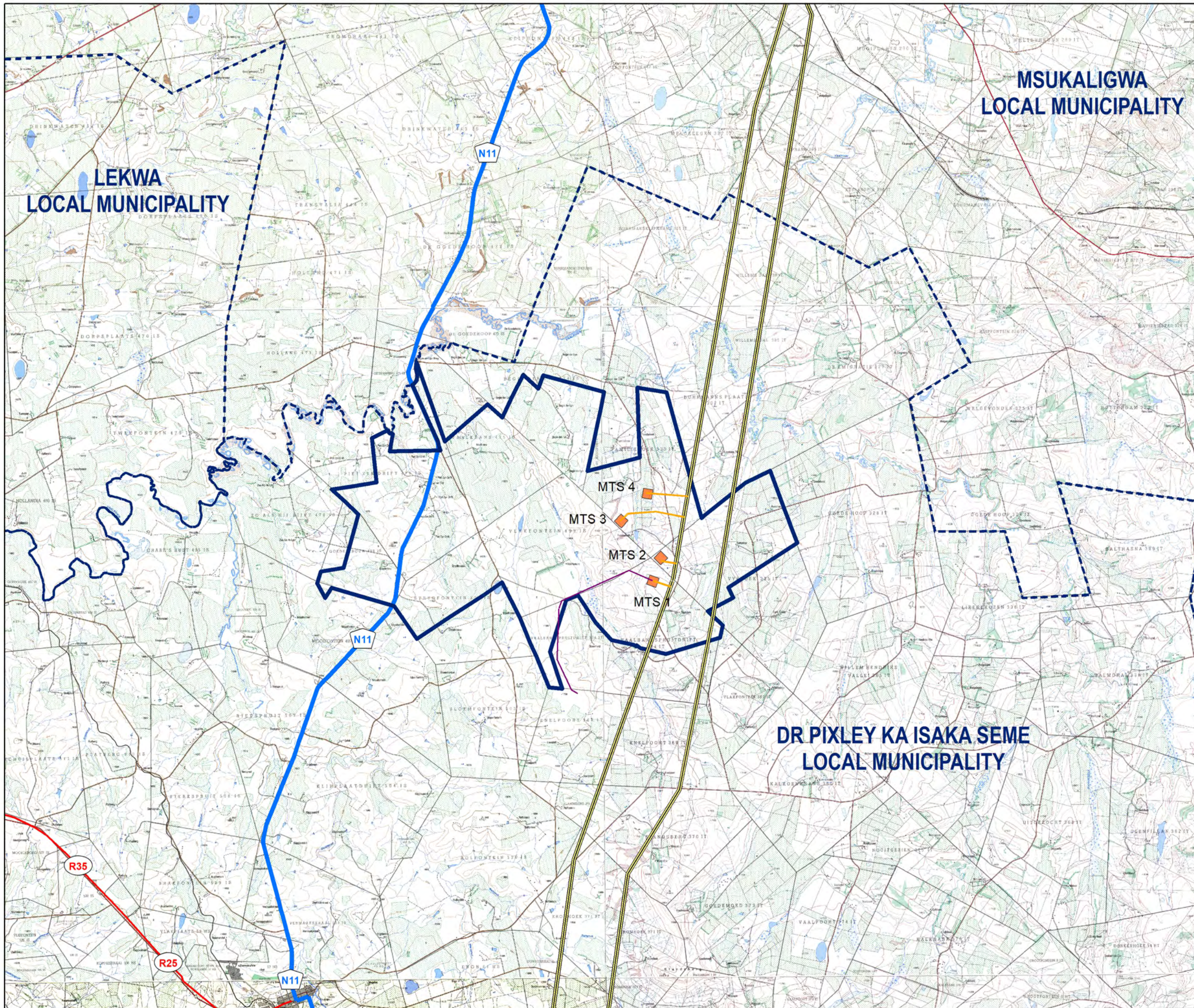
**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320  
Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za

<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 05/06/2023
<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b> 

"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT

**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
SITE LOCALITY**



**Legend**

- National Route
- Arterial Route
- 400kV OHL (existing)
- Rivers
- Local Municipal Boundaries
- 132kV OHL (part of a separate BA application)
- LILO
- MTS
- Ujekamanzi WEF 1 Application Site

Source:  
NGI, 2014  
ESKOM, 2012  
MUNICIPAL DEMARICATION BOARD, 2016



**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320  
Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za








<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 24/01/2023
<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b>

"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT

**ABO UJEKAMANZI  
WIND ENERGY FACILITIES  
AND  
ASSOCIATED INFRASTRUCTURE  
WITHIN THE  
DR PIXLEY KA ISAKA SEME  
LOCAL MUNICIPALITY,  
MPUMALANGA PROVINCE  
VEGETATION CLASSIFICATION**

**Legend**

-  National Route
-  400kV OHL (existing)
-  Rivers
-  132kV OHL (part of a separate BA application)
-  LILO
-  MTS
-  Ujekamanzi WEF 1 Application Site

**Vegetation Classification**

-  Amersfoort Highveld Clay Grassland
-  Eastern Highveld Grassland
-  Soweto Highveld Grassland
-  Wakkerstroom Montane Grassland

Source:  
NFEPA, 2011  
SANBI, 2018  
ESKOM, 2012



**ENVIRONMENTAL DIVISION**  
4 PENCARROW CRESCENT  
LA LUCIA RIDGE OFFICE ESTATE  
UMHLANGA ROCKS  
4320

Phone: +27 31 581 1500  
Fax: +27 31 581 2371  
e-mail: info@sivest.co.za

<b>Project No</b> 18395	<b>Prepared By</b> SB	<b>Date</b> 24/01/2023
----------------------------	--------------------------	---------------------------

<b>Map Ref No</b> 18395	<b>Revision</b> 0	<b>Date</b>
----------------------------	----------------------	-------------

"COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM WHICH HAS BEEN CERTIFIED ISO 9001:2015 COMPLIANT

