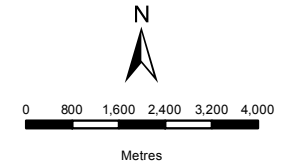


**BIO THERM ENERGY  
(PTY) LTD**  
SENSITIVITY MAP  
ENAMANDLA PV5

**Legend**

- Letsoai Substations
- Homesteads
- Letsoai Ridgelines
- Heritage Sensitivities
- Gamsberg Inselberg
- Enamandla Site 5
- Development Area
- Homesteads Buffer 400m
- Loop10Rd Buffer 500m
- N14 Buffer 3km
- Letsoai Substations Footprints



DATA SOURCE:  
CHIEF DIRECTORATE: NATIONAL GEO-  
SPATIAL INFORMATION

PROJECTION: WGS 19 HARTEBEESSHOEK 94  
PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579  
SCALE: 1:130,000 AT A4      DATE: 24/11/2016  
DRAWN BY: SABELO DUBE      FIGURE NO:  
REVIEWED BY: ASHLEA STRONG



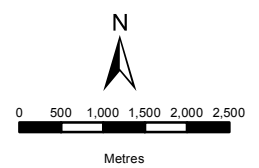
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- Biodiversity**
- Medium Low Sensitivity
  - Medium Sensitivity
  - Medium High Sensitivity
  - High Sensitivity
  - Very High Sensitivity
- Layout**
- PV5- SS2
  - Option 1**
  - SS3-SS1
  - Option 2**
  - SS3- OuterSS
  - Option 3**
  - SS2- SS1

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**BIO THERM ENERGY  
(PTY) LTD**  
ENAMANDLA PV5

- Legend**
- Development
  - PV5- SS2
  - Enamandla PV5
  - Option 1**
  - SS3-SS1
  - Option 2**
  - SS3-OuterSS
  - Option 3**
  - SS2-SS1



DATA SOURCE:  
SOUTH AFRICAN DEPARTMENT OF RURAL  
DEVELOPMENT AND LAND REFORM-  
CHIEF DIRECTORATE: NATIONAL GEO-SPATIAL  
INFORMATION

PROJECTION: WGS 19 HARTEBEEHOCK 94

PROJECT TITLE:  
WIND AND SOLAR RENEWABLES

PROJECT NO: 47579

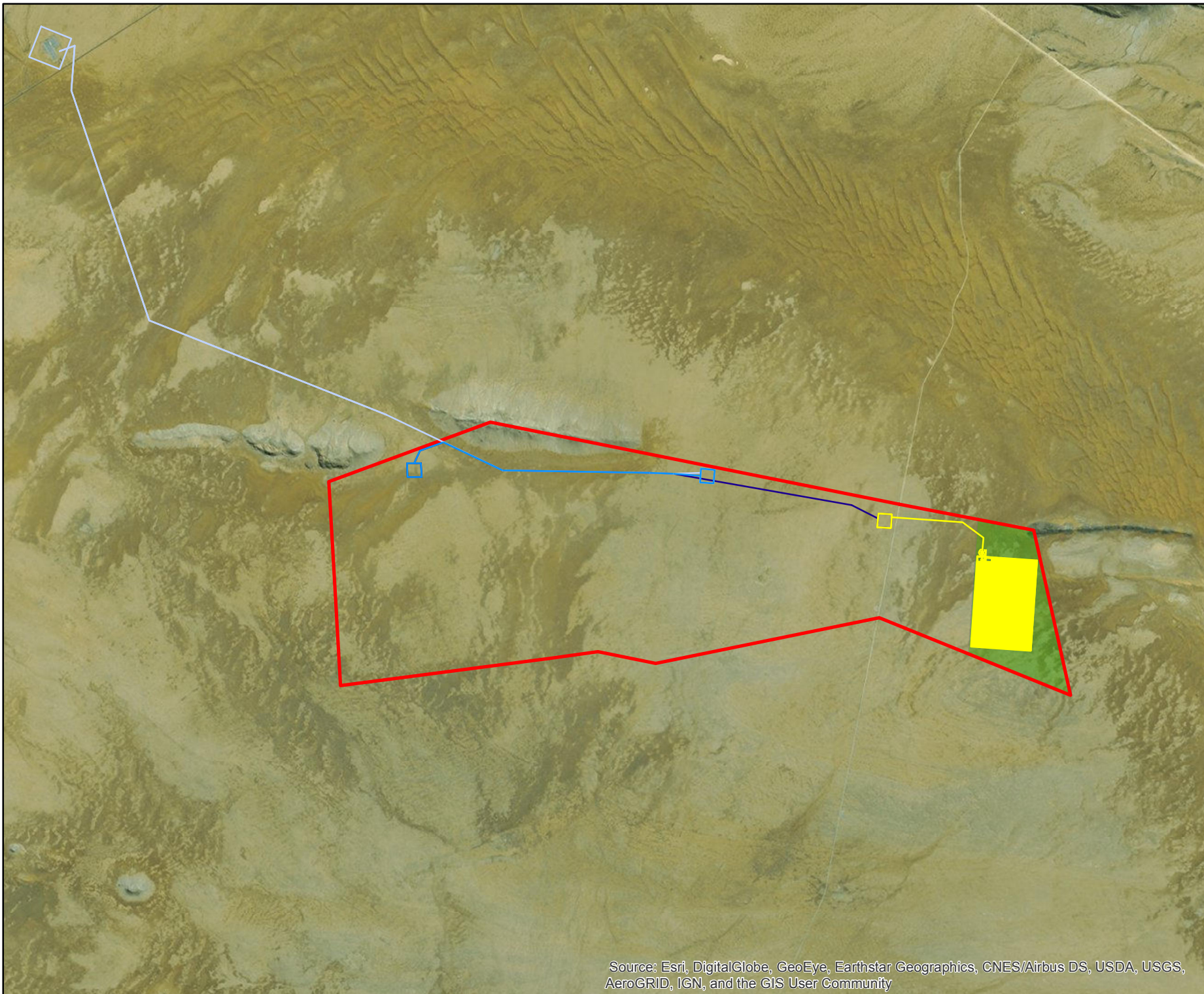
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DRAWN BY: SABELO DUBE	FIGURE NO:

REVIEWED BY: ASHLEA STRONG



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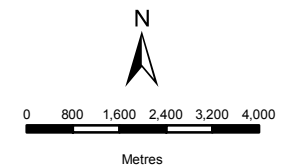


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**BIO THERM ENERGY  
(PTY) LTD**  
LAYOUT MAP  
ENAMANDLA PV5

**Legend**

- Letsoai Substations
  - Rivers
  - Letsoai Ridgelines
  - Heritage Sensitivities
  - Gamsberg Inselberg
  - Enamandla PV5
  - Letsoai Enamandla Boundaries
  - Loop10Rd Buffer 500m
  - N14 Buffer 3km
  - Letsoai Substations Footprints
  - NFEPA Wetlands
- SANBI Wetland Vegetation**
- Nama Karoo Bushmanland
  - Richtersveld (Skr)



DATA SOURCE:  
CHIEF DIRECTORATE: NATIONAL GEO-SPATIAL INFORMATION  
NFEPA, SANBI

PROJECTION: WGS 19 HARTEBEE SHOEK 94

PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579

SCALE: 1:130,000 AT A4      DATE: 08/12/2016

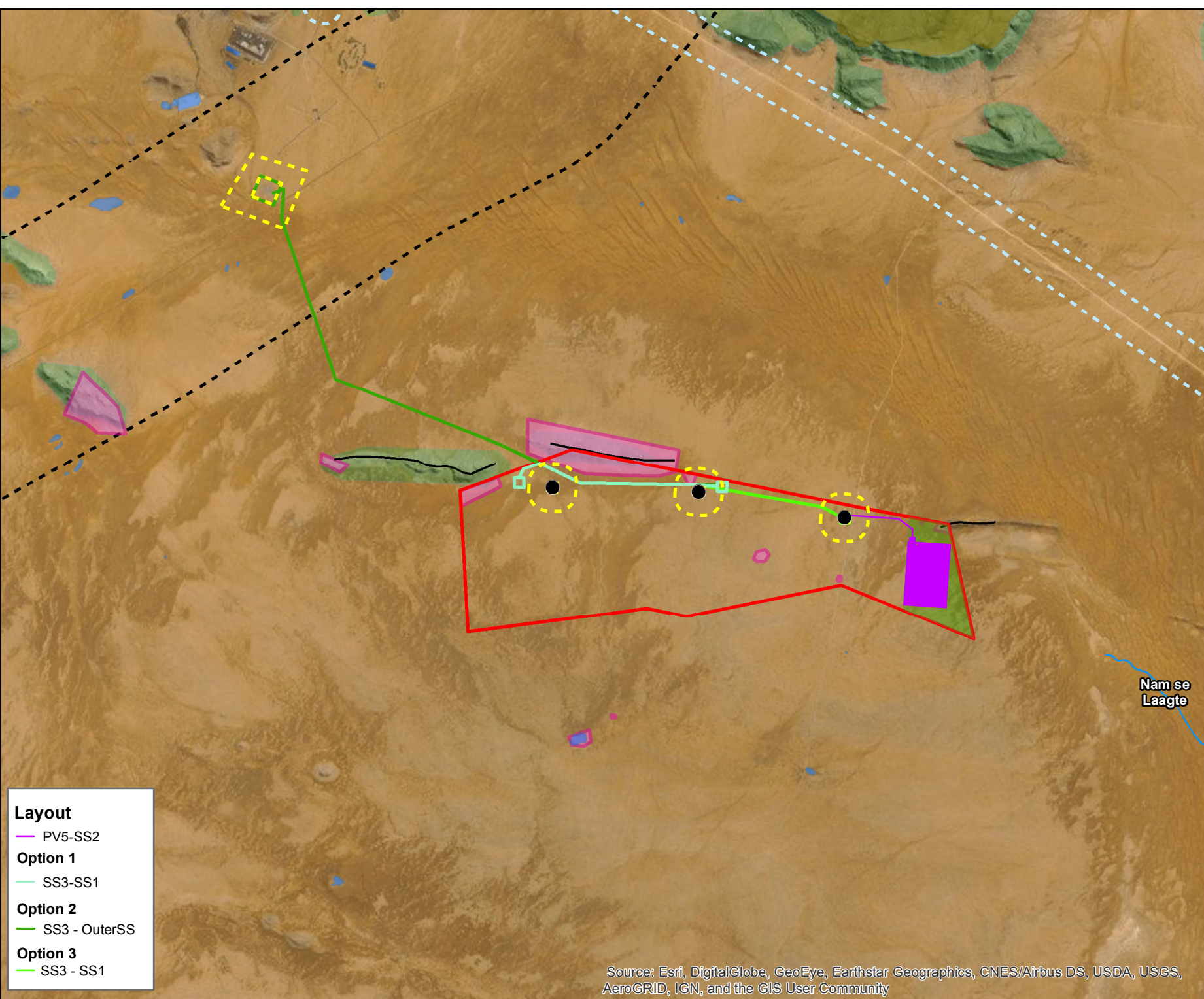
DRAWN BY: SABELO DUBE      FIGURE NO:

REVIEWED BY: ASHLEA STRONG



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- Layout**
- PV5-SS2
  - Option 1**
  - SS3-SS1
  - Option 2**
  - SS3 - OuterSS
  - Option 3**
  - SS3 - SS1

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**BIO THERM ENERGY (PTY) LTD**  
**REGIONAL MAP**  
 ENAMANDLA PV5

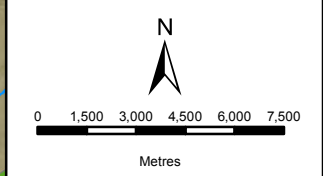
**Legend**

- Letsoai Substations
- Eskom Powelines
- Non- Perennial Rivers
- Powerlines
- Roads
- National Road
- Enamandla PV5
- ▭ Letsoai Enamandla Boundaries
- ▭ Letsoai Substations Footprints
- ▭ NFEPA Wetlands

**CBA Terrestrial**

**CBA Type**

- ESA\_T
- T1
- T2



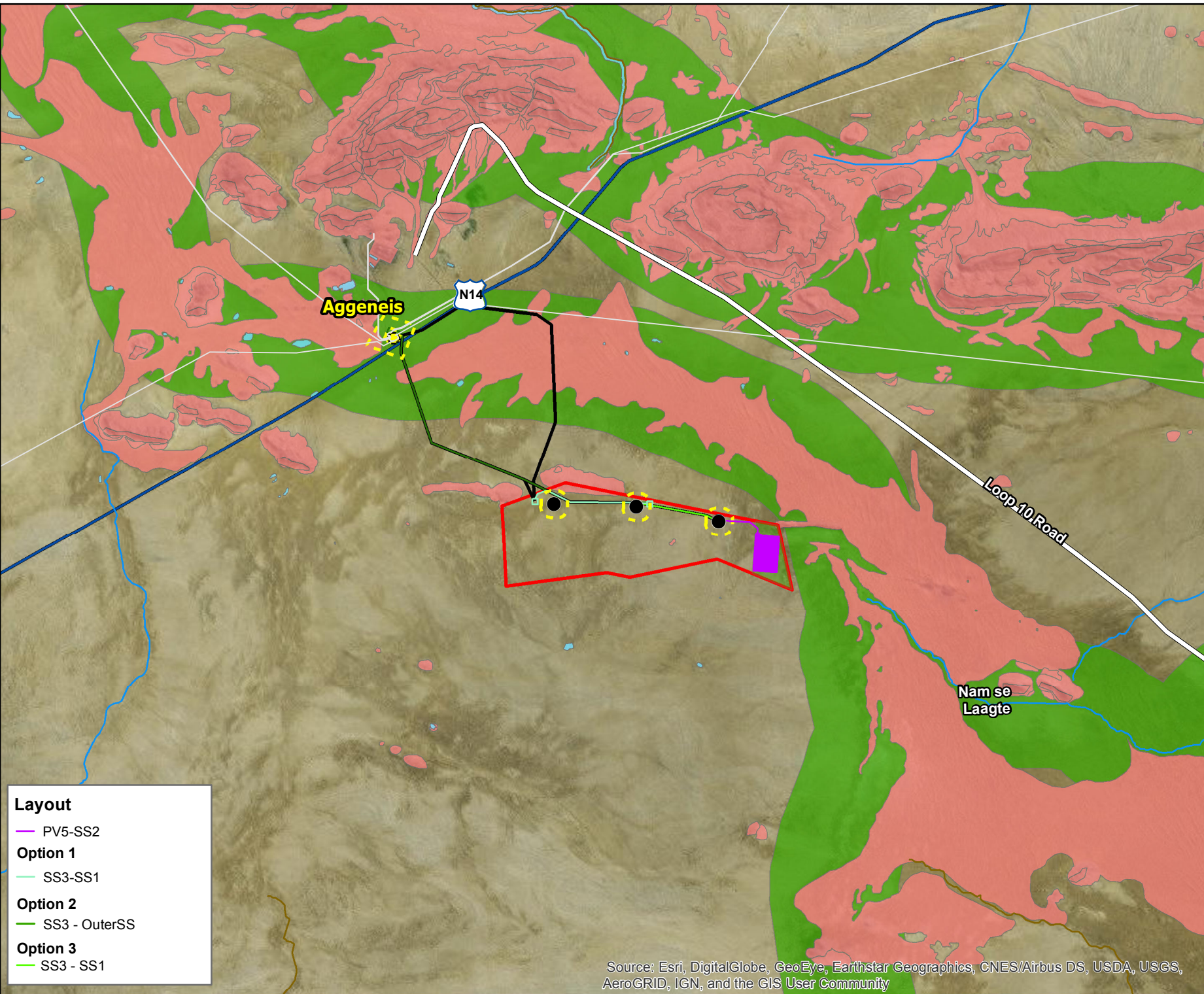
DATA SOURCE:  
 CHIEF DIRECTORATE: NATIONAL GEO-SPATIAL INFORMATION  
 NFEPA, SANBI

PROJECTION: WGS 19 HARTEBESHOEK 94  
 PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579  
 SCALE: 1:230,000 AT A4      DATE: 08/12/2016  
 DRAWN BY: SABELO DUBE      FIGURE NO:  
 REVIEWED BY: ASHLEA STRONG



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**Aggeneis**

**N14**

**Loop 10 Road**





**Nam se Laagte**

- Layout**
- PV5-SS2
  - Option 1**
  - SS3-SS1
  - Option 2**
  - SS3 - OuterSS
  - Option 3**
  - SS3 - SS1





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

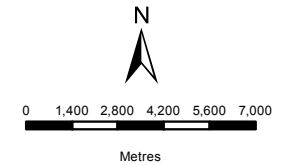
**BIO THERM ENERGY (PTY) LTD**  
**SLOPE ANALYSIS**  
 ENAMANDLA PV5

**Legend**

-  Roads
-  National Road
-  Enamandla PV5
-  Letsoai Enamandla Boundaries

**Slope**

-  0 - 9%
-  15 - 25%
-  9 - 15%
-  > 25%



DATA SOURCE:  
 CHIEF DIRECTORATE: NATIONAL GEO-  
 SPATIAL INFORMATION  
 NFEPA, SANBI

PROJECTION: WGS 19 HARTEBEESSHOEK 94

PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579





SCALE: 1:230,000 AT A4      DATE: 08/12/2016

DRAWN BY: SABELO DUBE      FIGURE NO:

REVIEWED BY: ASHLEA STRONG











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- Layout**
-  PV4-SS2
  - Option 1**
  -  SS3-SS1
  - Option 2**
  -  SS3 - OuterSS
  - Option 3**
  -  SS3 - SS1

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community




**BIO THERM ENERGY (PTY) LTD**  
**LAYOUT MAP**  
**ENAMANDLA PV5**

**Legend**


-  Eskom Powelines
-  Rivers
-  Letsoai Ridgelines
-  Heritage Sensitivities
-  Gamsberg Inselberg
-  Enamandla PV5
-  Letsoai Enamandla Boundaries
-  NFEPA Wetlands

**CBA Terrestrial**

**CBA Type**


-  ESA\_T
-  T1
-  T2

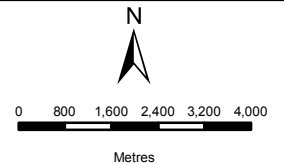
**Protected Vegetation**

-  Kamiesberg Bushmanland Augrabies

**Vegetation**

**Levels of Protection**

-  Least threatened



DATA SOURCE:  
 CHIEF DIRECTORATE: NATIONAL GEO-  
 SPATIAL INFORMATION  
 NFEPA, SANBI

PROJECTION: WGS 19 HARTEBESHOEK 94

PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579

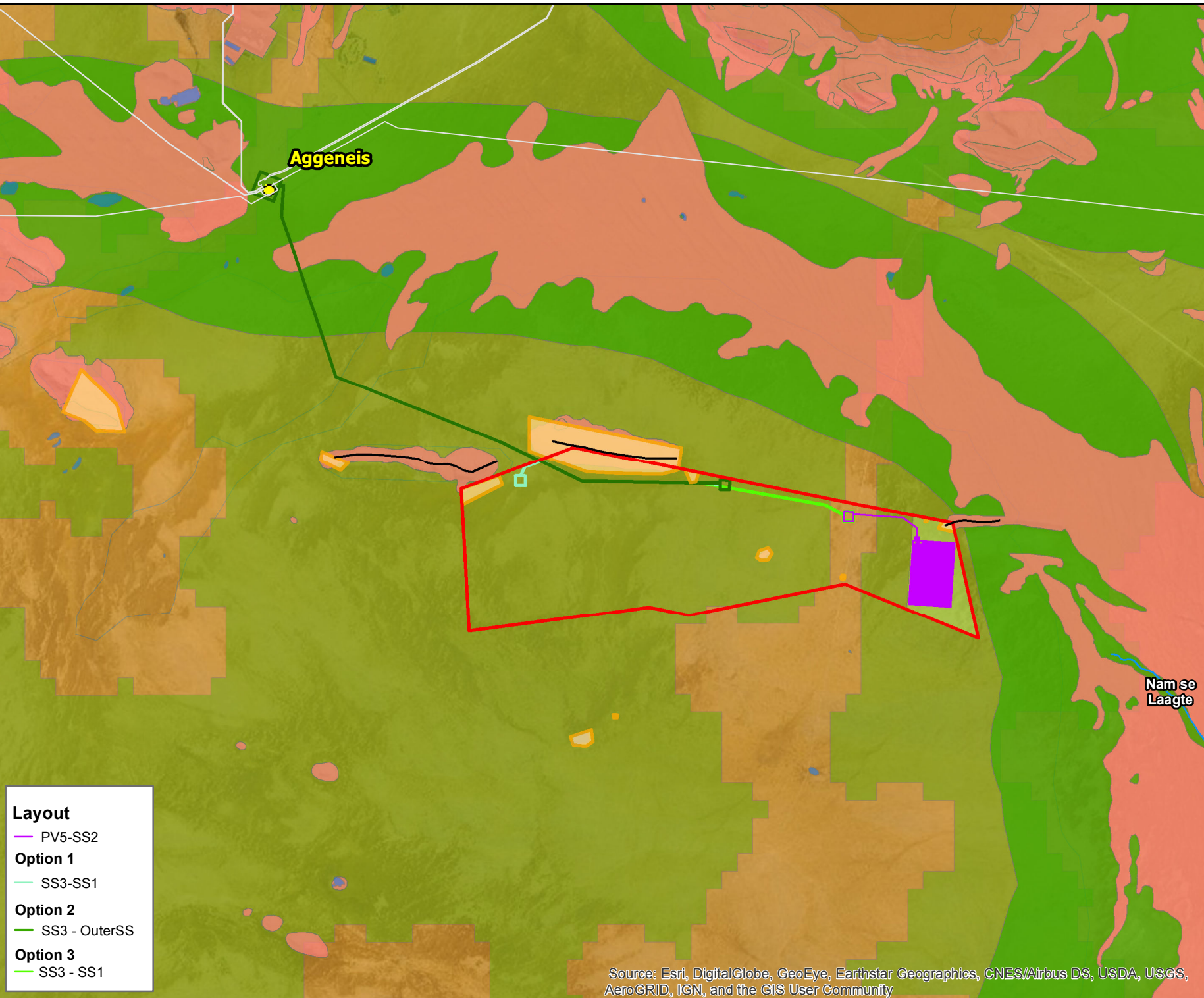
SCALE: 1:130,000 AT A4 DATE: 08/12/2016





DRAWN BY: SABELO DUBE FIGURE NO:

REVIEWED BY: ASHLEA STRONG



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- Layout**
-  PV5-SS2
  - Option 1**
  -  SS3-SS1
  - Option 2**
  -  SS3 - OuterSS
  - Option 3**
  -  SS3 - SS1

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community