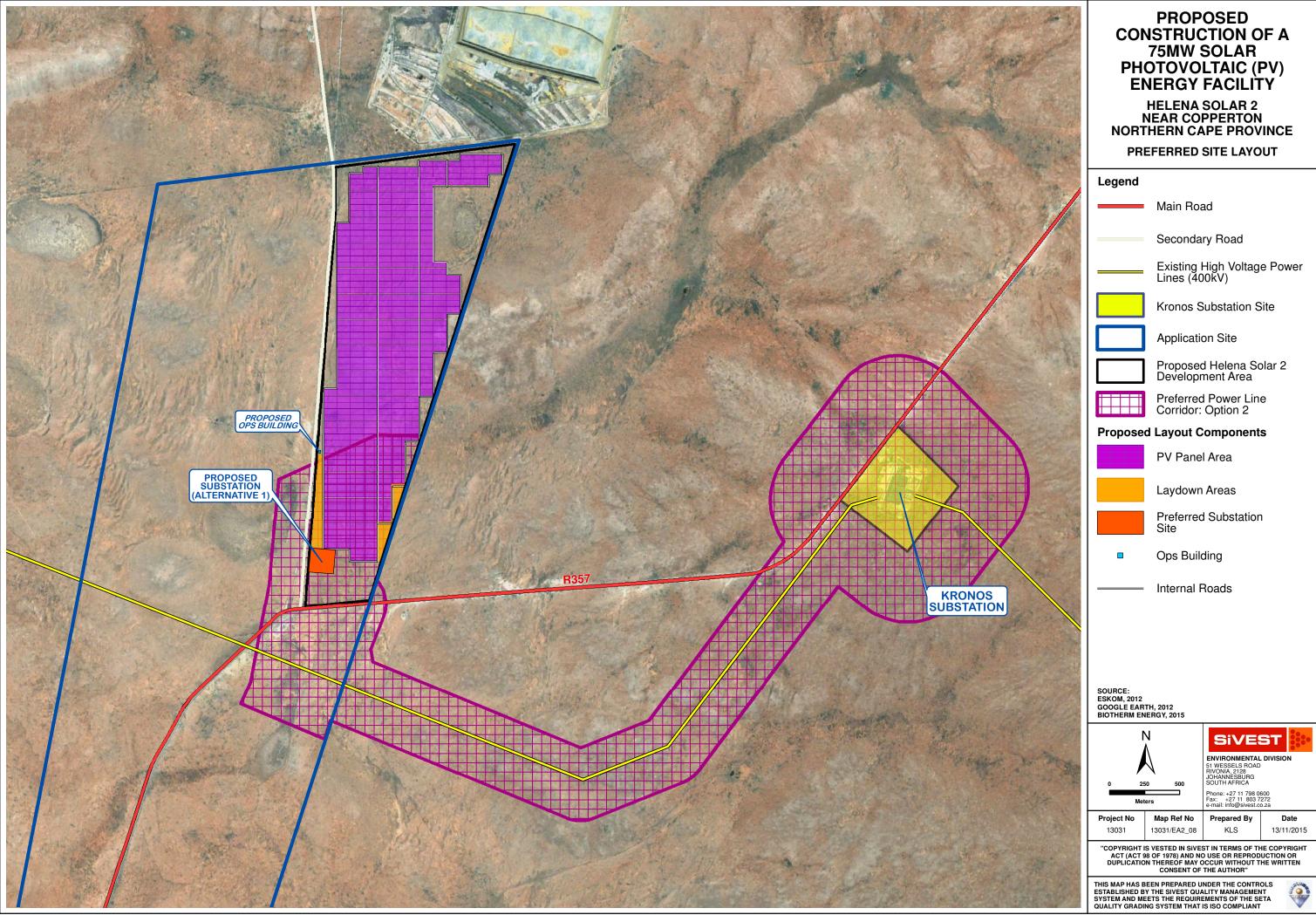
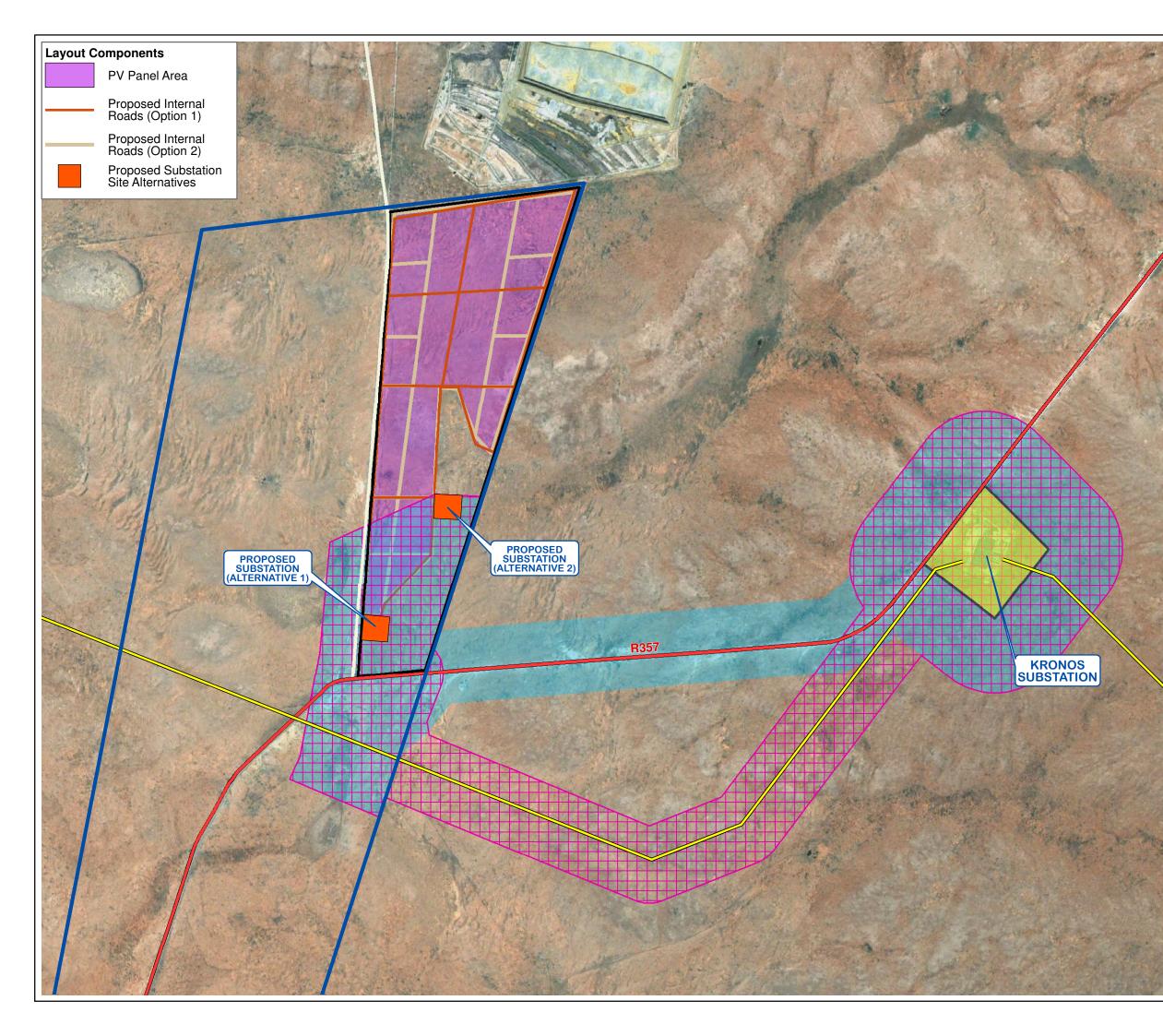


HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

### BROAD LAND COVER CLASSIFICATION

Main Roads					
	Railway I	Railway Line			
	Existing I Lines (40	Existing High Voltage Power Lines (400kV)			
	Main Riv	ers/Water C	Courses		
∎	Existing	Substation			
	Applicatio	on Site			
	Proposed Developr	d Helena So nent Area	olar 2		
	Proposed Corridor:	d Power Lin Option 1	е		
	Proposed Corridor:	d Power Lin Option 2	е		
	Proposed Alternativ	d Substation /es	n Site		
SOURCE: ESKOM, 2012 BIOTHERM EN 2013-2014 SA (© GEOTERR,	IERGY 2015 NATIONAL LAND NIMAGE - 2014)	COVER			
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	Ą	ENVIRONMENTAL 51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG			
0 0.7 Kilom		SOUTH AFRICA Phone: +27 11 798 0 Fax: +27 11 803 7 e-mail: info@sivest.c	600 272		
Project No	Map Ref No	Prepared By	Date		
ACT (ACT 9	8 OF 1978) AND NO N THEREOF MAY C	KLS ST IN TERMS OF TH D USE OR REPROD DCCUR WITHOUT T THE AUTHOR"	UCTION OR		
ESTABLISHED B SYSTEM AND ME	Y THE SIVEST QUA EETS THE REQUIRI	NDER THE CONTRALITY MANAGEMEN EMENTS OF THE SI	IT ETA		





HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

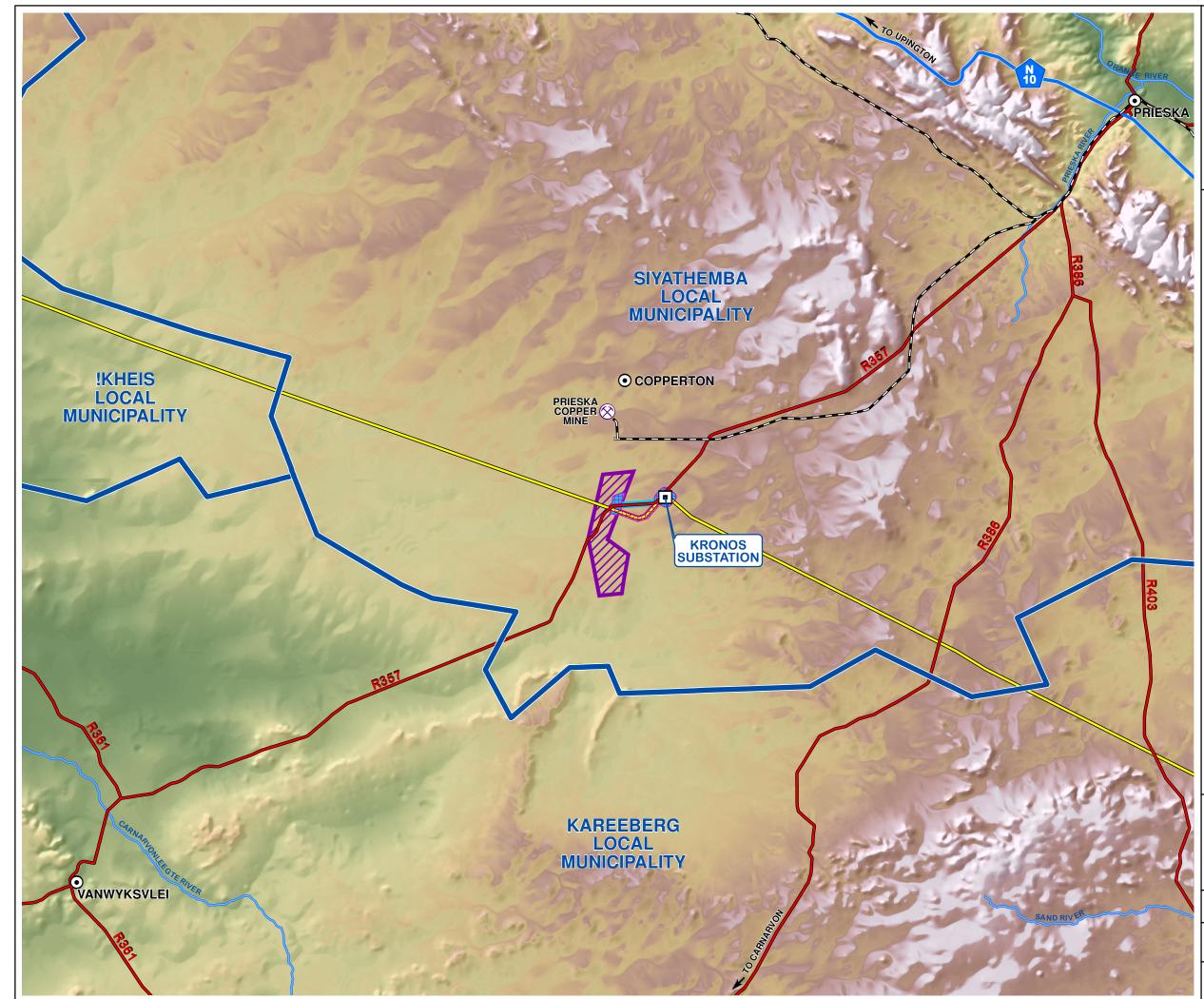
PROPOSED SITE LAYOUT

# Legend

Legena			
	Main Ro	ad	
	Seconda	ry Road	
	Existing Lines (40	High Voltag )0kV)	e Power
	Kronos S	Substation S	Site
	Applicati	on Site	
	Propose Develop	d Helena So ment Area	olar 2
	Propose Corridor:	d Power Lin Option 1	e
	Propose Corridor:	d Power Lin Option 2	e
SOURCE: ESKOM, 2012 GOOGLE EAR BIOTHERM EN			
٢	N N	SiVE	ST
	$\langle \rangle$	ENVIRONMENTAL 51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG	
0 25		SOUTH AFRICA Phone: +27 11 798 0 Fax: +27 11 803 7	600
Met		e-mail: info@sivest.c	o.za
Project No 13031	Map Ref No 13031/EA2_07	Prepared By KLS	Date 20/08/2015
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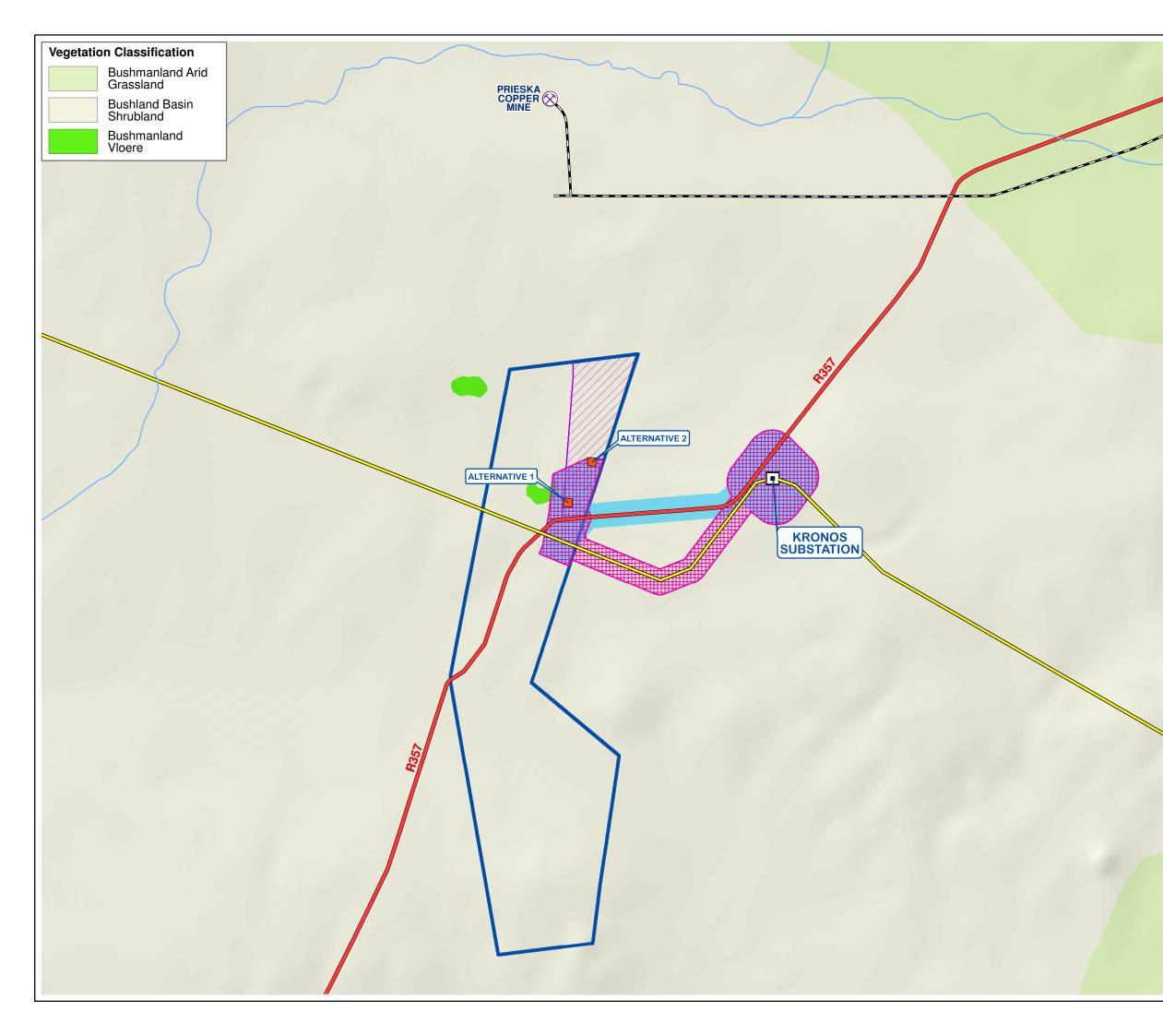




### HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

**REGIONAL CONTEXT** 

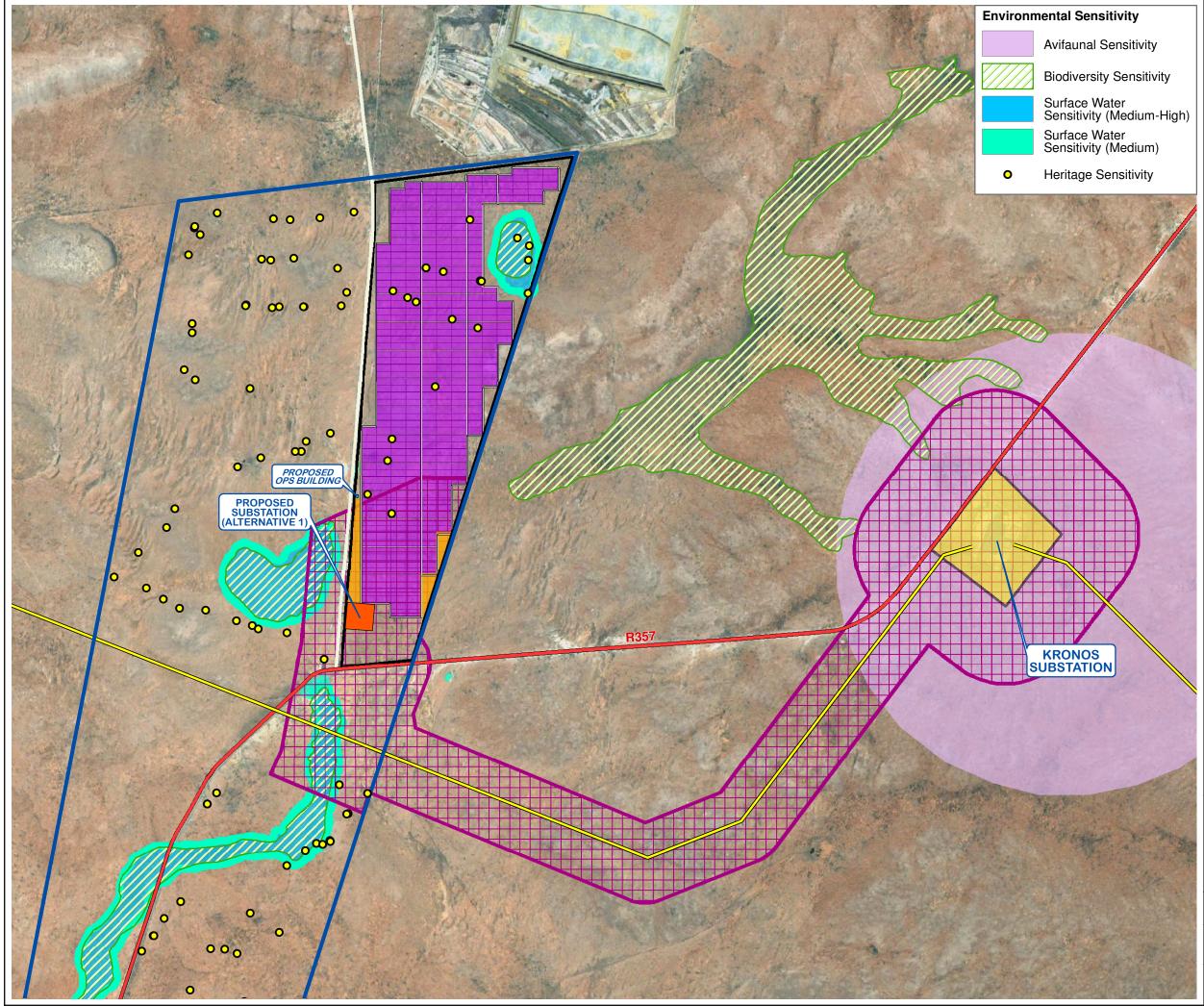
	Local Mu	Local Municipal Boundaries			
	National	National Route (N10)			
	Main Roa	Main Roads			
	Railway	Line			
	Existing Lines (40	High Voltag )0kV)	e Power		
	Main Riv	ers			
$\odot$	Main Tov	vns			
▣	Kronos N	/ITS Substa	tion		
	Applicati	on Site			
	Proposed Corridor:	d Power Lin Option 1	e		
	Proposed Corridor:	d Power Lin Option 2	e		
SOURCE: ESKOM, 2012 MUNICIPAL DEMARCATION BOARD, 2011 NFEPA, 2011 NGI, 2014					
١	<b>I</b>	SiVE	ST		
	ENVIRONMENTAL DIVISION 51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG				
0 5 10 SOUTH AFRICA Phone: +27 11 798 0600 Fax: +27 11 780 8000 Fax: +27 11 803 7272 e-mail: into@sivest.co.za					
Project No 13031	Map Ref No 13031/EA2 02	Prepared By KLS	Date 20/08/2015		
ACT (ACT 9	8 OF 1978) AND N	ST IN TERMS OF TI DUSE OR REPROD	UCTION OR		
DUPLICATIO	ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"				
ESTABLISHED B SYSTEM AND ME	Y THE SIVEST QUA	NDER THE CONTR ALITY MANAGEMEN EMENTS OF THE SI IS ISO COMPLIANT			



HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

VEGETATION CLASSIFICATION (SANBI 2006)

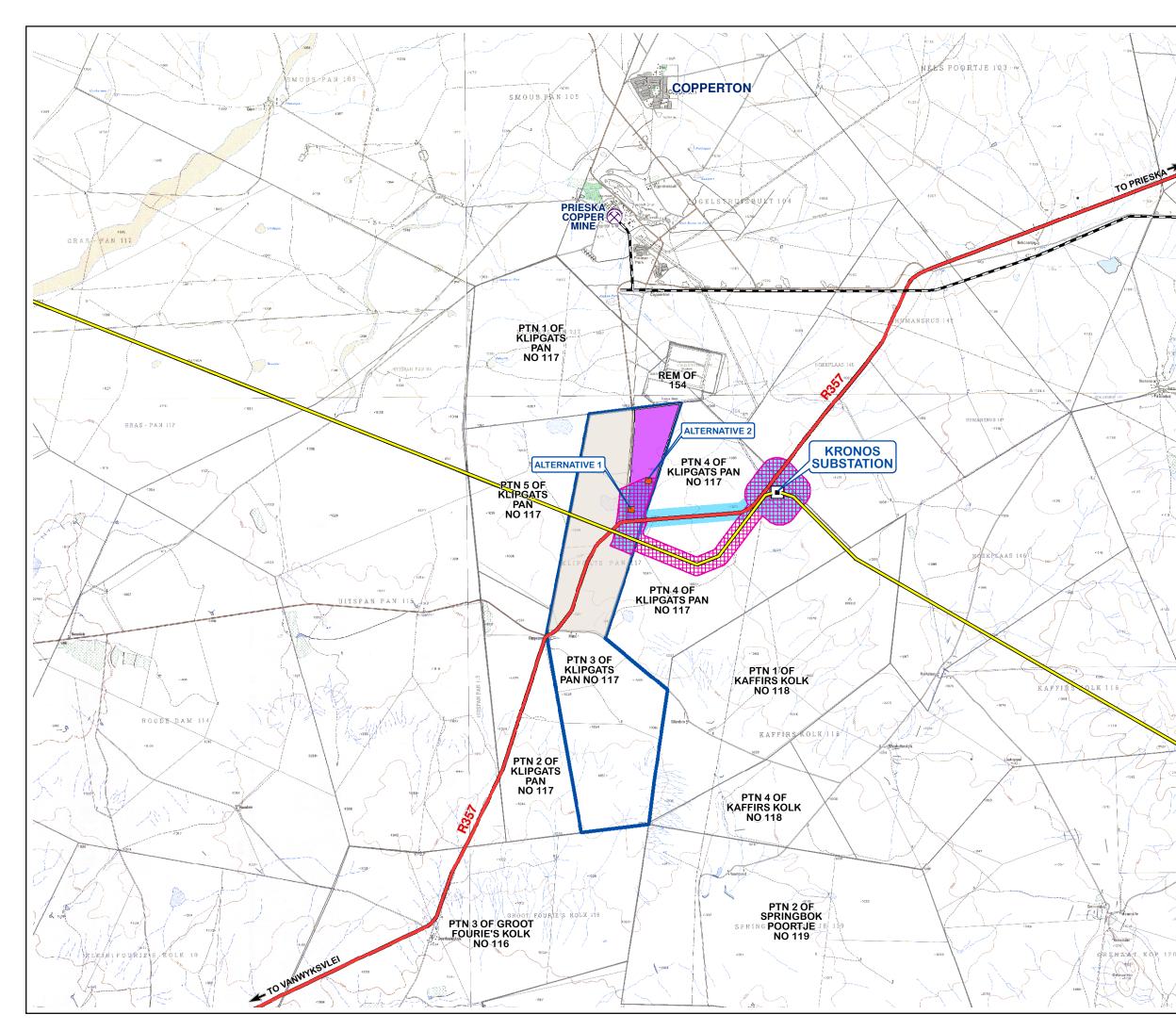
	Main Roa	ads		
	Railway Line			
	Existing Lines (40	High Voltag )0kV)	e Power	
	Main Riv	ers/Water C	Courses	
∎	Existing	Substation		
	Application	on Site		
	Proposed Helena Solar 2 Development Area			
	Proposed Corridor:	d Power Lin Option 1	IE	
	Proposed Corridor:	d Power Lin Option 2	Ie	
	Proposed Alternativ	d Substatio /es	n Site	
SOURCE: ESKOM, 2012 BIOTHERM, 201 SANBI, 2006	5			
	l	Sive	ST 🔛	
	Ì	ENVIRONMENTAL 51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG		
0 0.75 Kilome		SOUTH AFRICA Phone: +27 11 798 0 Fax: +27 11 803 7 e-mail: info@sivest.c	600 /272	
Project No 13031	Map Ref No 13031/EA2_05	Prepared By KLS	Date 20/08/2015	
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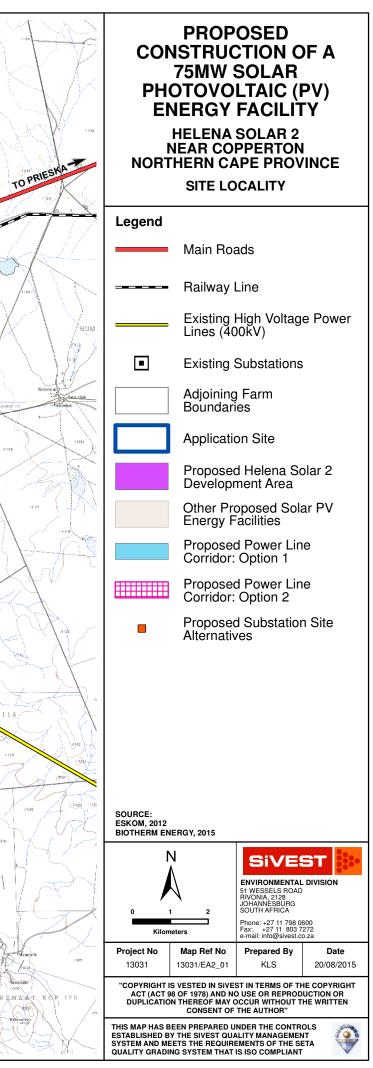


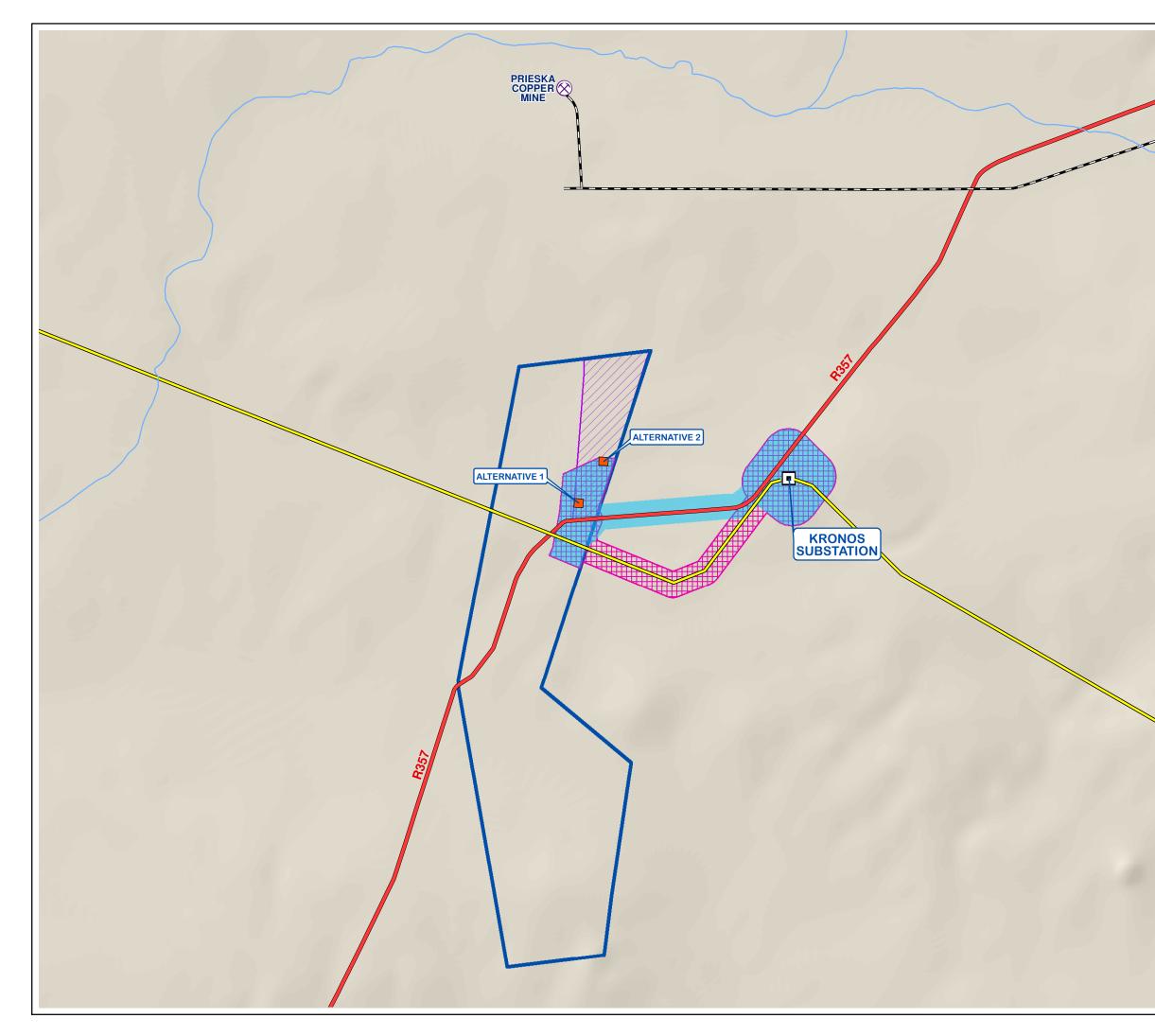
HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

PREFERRED SITE LAYOUT WITH SENSITIVITY OVERLAY

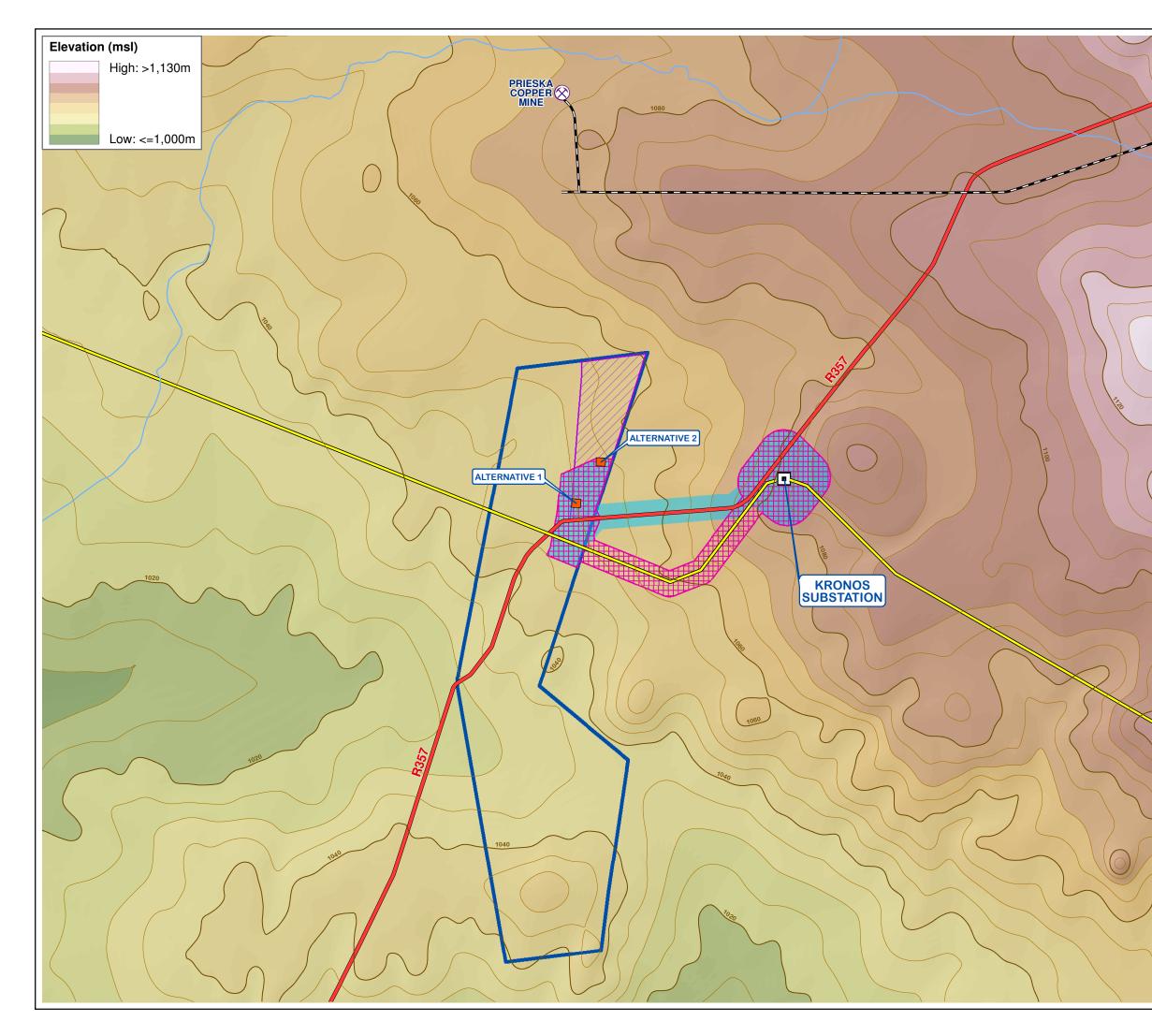
Legena	Main Roa	Main Road			
	Seconda	Secondary Road			
	Existing I Lines (40	Existing High Voltage Power Lines (400kV)			
	Kronos S	Substation S	Site		
	Application	on Site			
	Proposed Developr	d Helena So nent Area	olar 2		
	Preferrec Corridor:	l Power Lin Option 2	e		
Proposed	Layout C	omponent	s		
	PV Pane	l Area			
	Laydown	Areas			
	Preferrec Site	Substatior	I		
	Ops Build	ding			
	Internal Roads				
SOURCE: ESKOM, 2012 GOOGLE EARTH, 2012 BIOTHERM ENERGY, 2015					
N SIVEST ENVIRONMENTAL DIVISION 51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG					
0 250 500 SOUTH AFRICA Phone: +27 11 798 0600 Fax: +27 11 803 7272 e-mail: info@sivest.co.za					
Project No 13031	Map Ref No 13031/EA2_09	Prepared By KLS	<b>Date</b> 13/11/2015		
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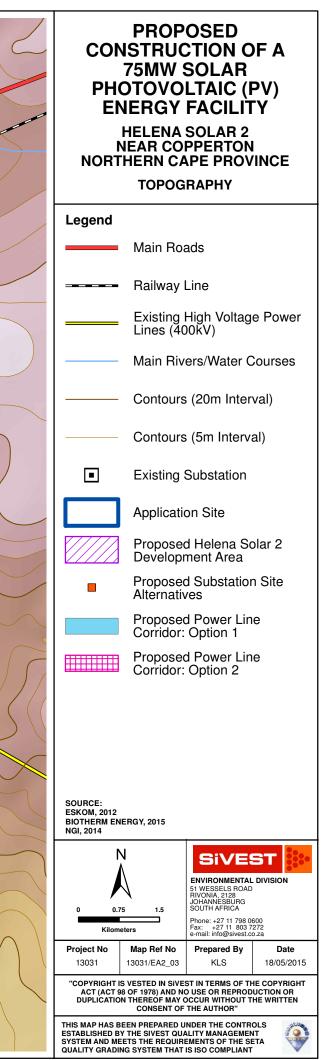


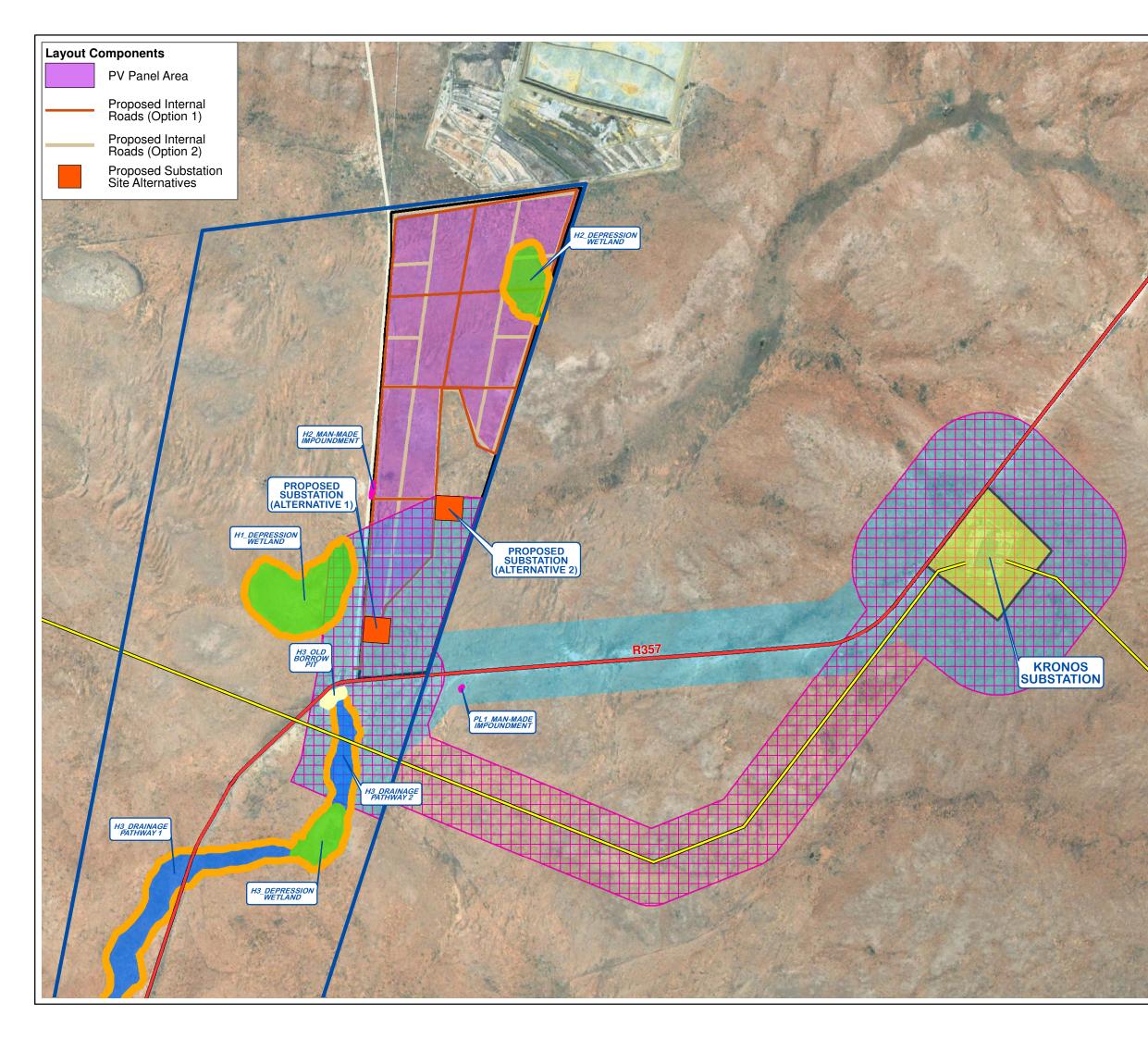


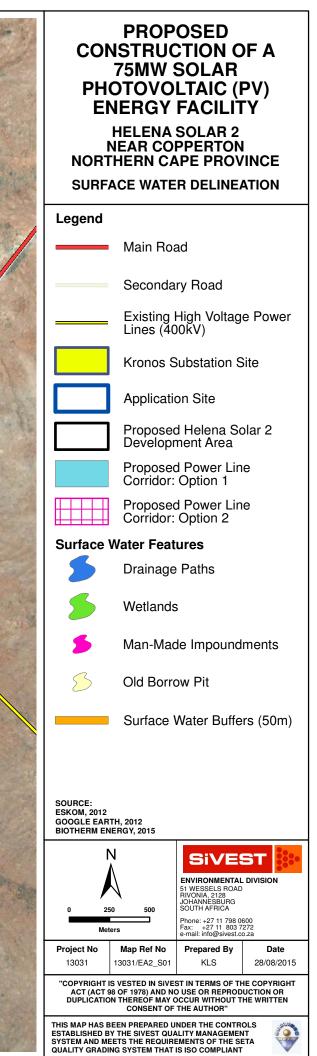


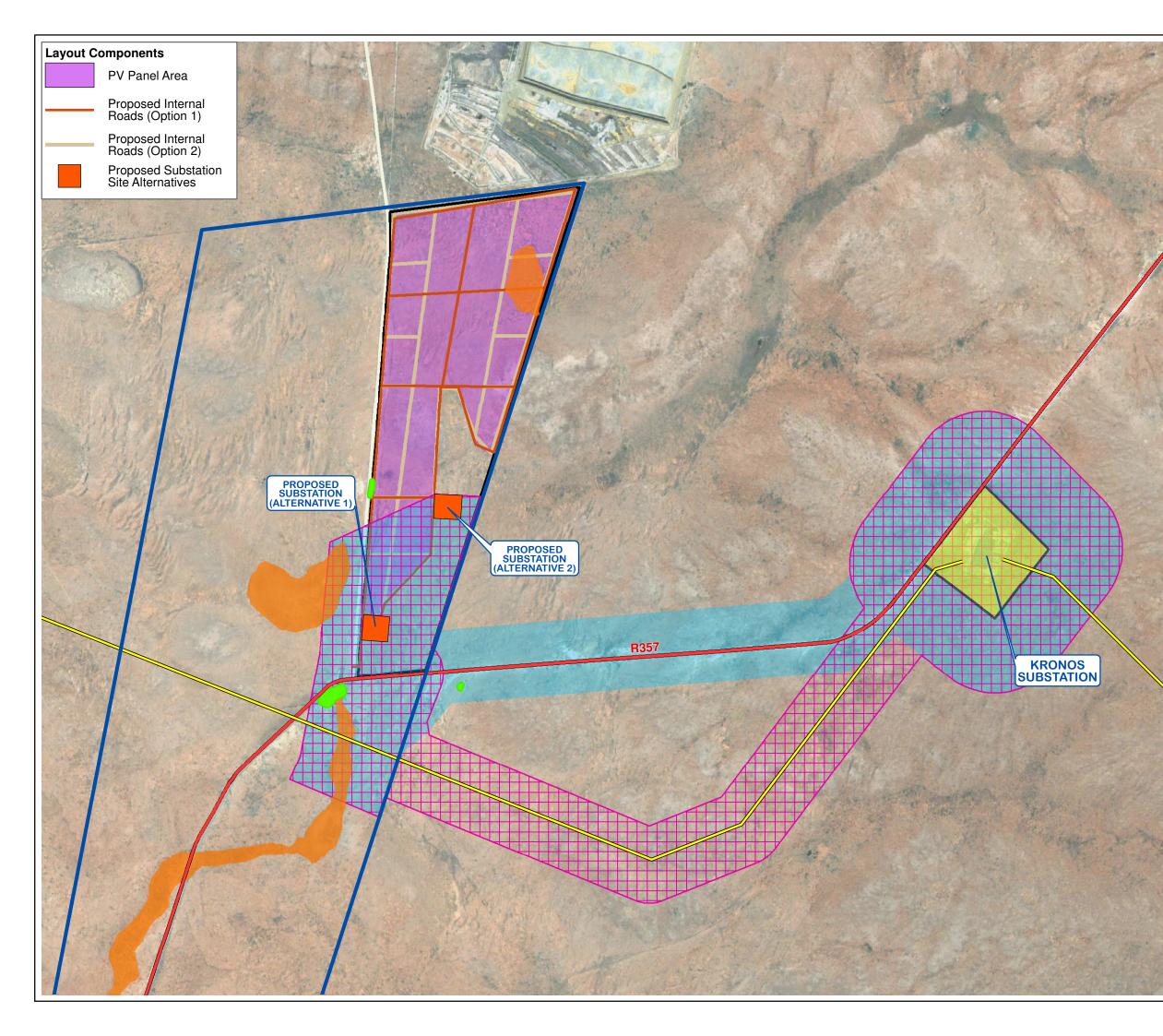
	PROPOSED CONSTRUCTION OF A 75MW SOLAR PHOTOVOLTAIC (PV) ENERGY FACILITY HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE SLOPE CLASSIFICATION						
	Legend						
		Main Roa	ads				
		Railway	Line				
( and		Existing Lines (40	High Voltag )0kV)	e Power			
2		Main Riv	ers/Water C	Courses			
- 2 / 3	■	Existing	Substation				
		Application	on Site				
		Proposed Developr	d Helena So ment Area	olar 2			
10		Proposed Alternativ	d Substatior /es	n Site			
	Proposed Power Line Corridor: Option 1						
	Proposed Power Line Corridor: Option 2						
14	Slope Classification						
		<=8%					
	SOURCE: ESKOM, 2012 BIOTHERM EN NGI, 2014	IERGY, 2015					
	0 O. Kilom		ENVIRONMENTAL 51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG SOUTH AFRICA Phone: +27 11 803 7 e-mail: info@sivest.c	DIVISION			
	Project No 13031	Map Ref No 13031/EA2_04	Prepared By KLS	<b>Date</b> 18/08/2015			
	ACT (ACT 9	98 OF 1978) AND NO N THEREOF MAY (	ST IN TERMS OF TH USE OR REPROD CCUR WITHOUT T THE AUTHOR"	UCTION OR			
	ESTABLISHED B SYSTEM AND MI	Y THE SIVEST QUA	ALITY MANAGEMEN EMENTS OF THE SI	CONSENT OF THE AUTHOR" THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SIVEST QUALITY MANAGEMENT SYSTEM AND MEETS THE REQUIREMENTS OF THE SETA QUALITY GRADING SYSTEM THAT IS ISO COMPLIANT			







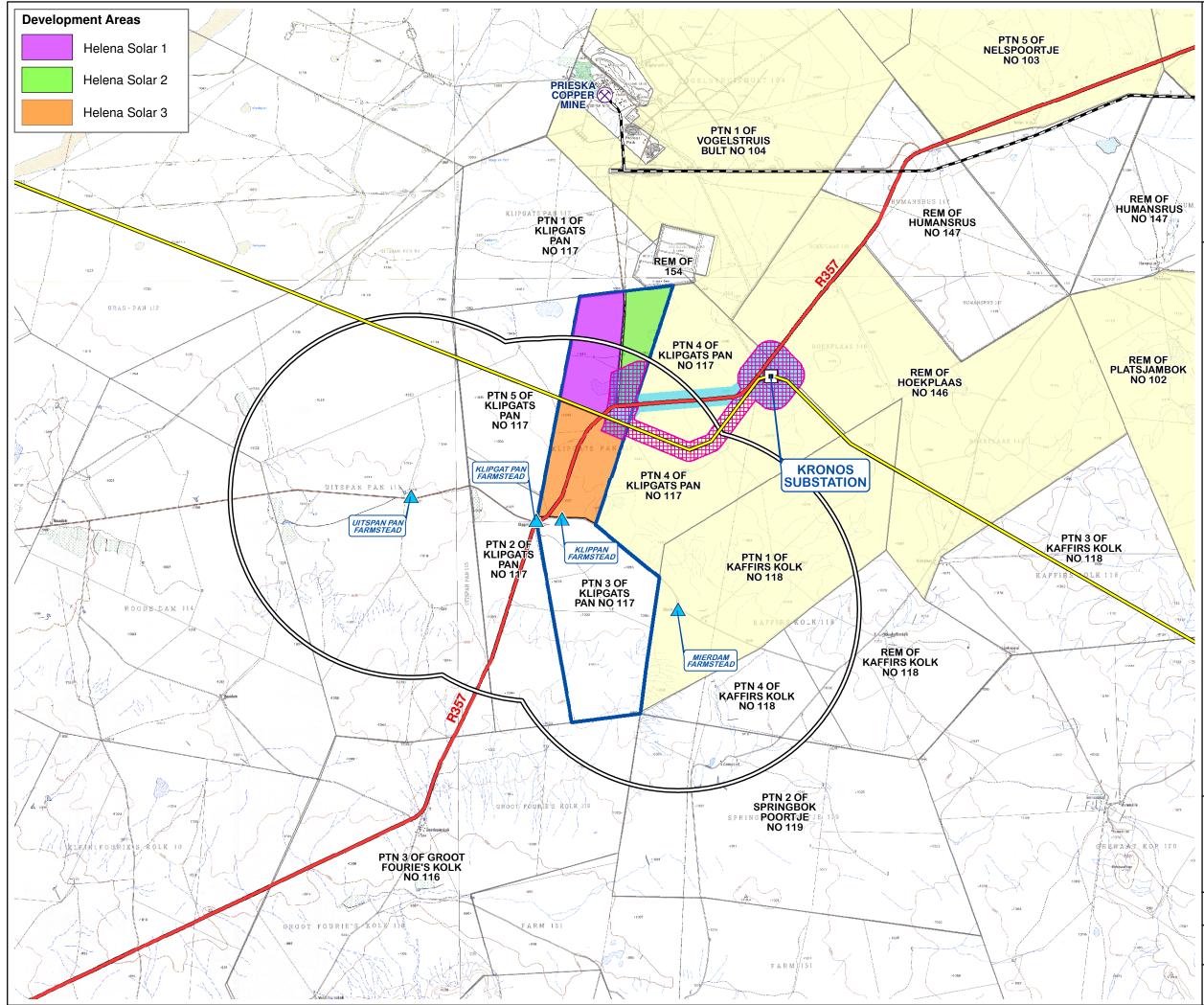




HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

SENSITIVITY OVERLAY: SURFACE WATER

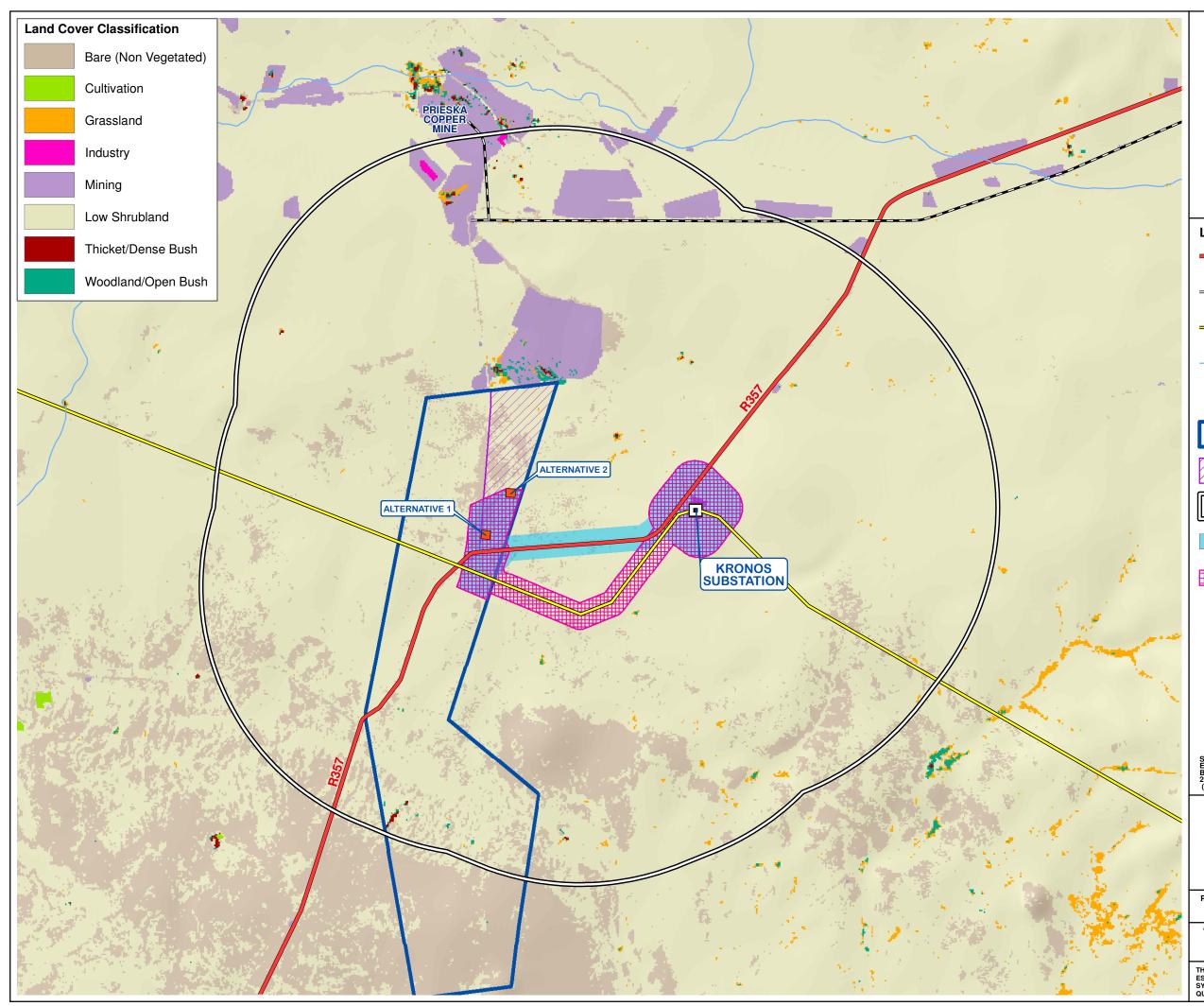
	Main Roa	Main Road			
	Seconda	Secondary Road			
	Existing Lines (40	Existing High Voltage Power Lines (400kV)			
	Kronos S	Kronos Substation Site			
	Application	on Site			
	Proposed Developr	d Helena So ment Area	olar 2		
	Proposed Corridor:	d Power Lin Option 1	e		
	Proposed Corridor:	d Power Lin Option 2	e		
Sensitivi	ty Rating				
<b>5</b>	Medium				
5	Medium-High				
SOURCE: ESKOM, 2012 GOOGLE EARTH, 2012 BIOTHERM ENERGY, 2015					
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$\square$		51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG	)		
0 250 500 SOUTH AFRICA Phone: +27 11 798 0600 Fax: +27 11 803 7272					
Met		e-mail: info@sivest.c	o.za		
Project No 13031	Map Ref No 13031/EA2_S02	Prepared By KLS	Date 28/08/2015		
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HELENA SOLAR 1, HELENA SOLAR 2 AND HELENA SOLAR 3 NEAR COPPERTON NORTHERN CAPE PROVINCE

VISUAL ASSESSMENT: OTHER PROPOSED RENEWABLE ENERGY DEVELOPMENTS

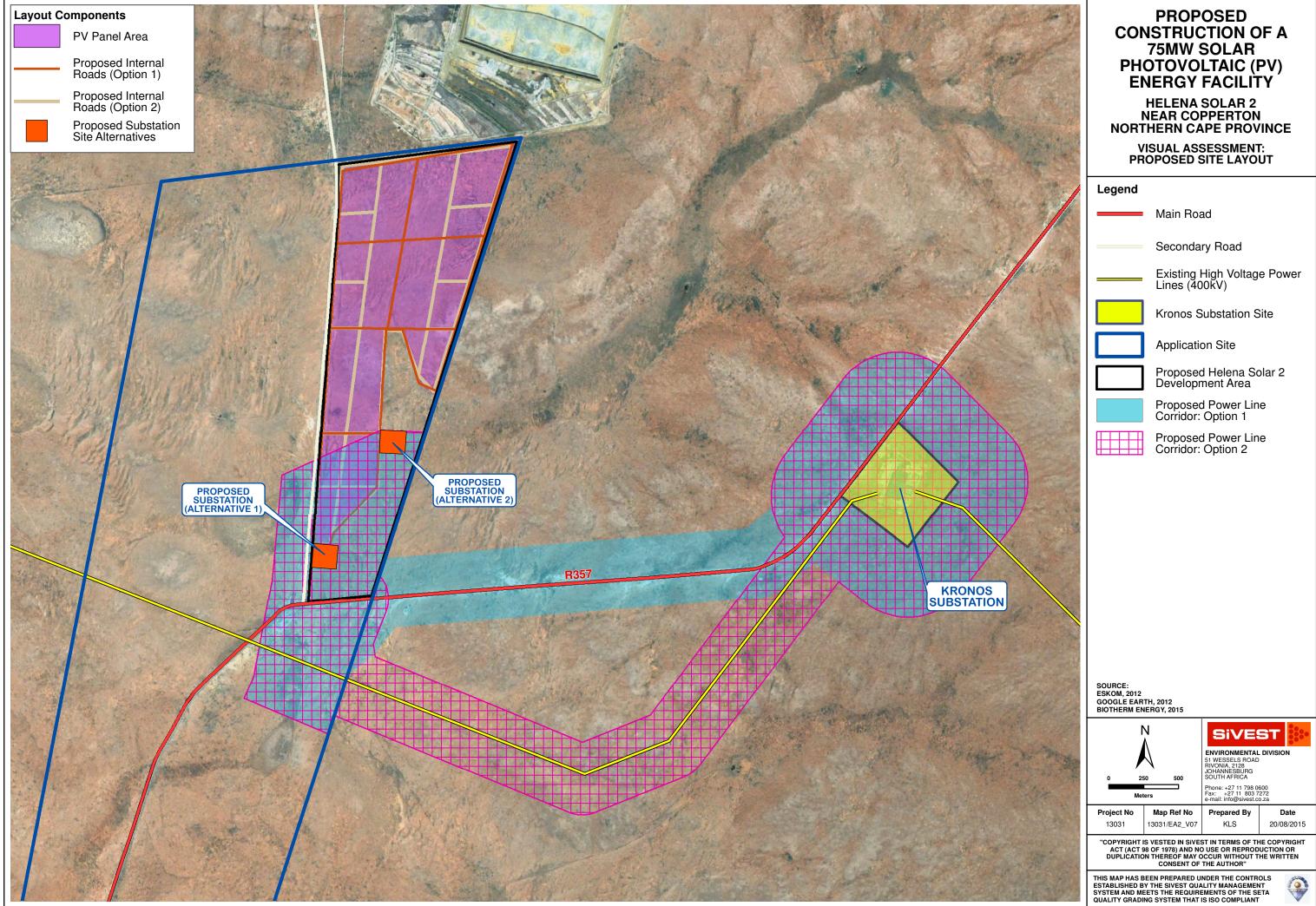
## Legend Main Roads Railway Line \_\_\_\_\_ Existing High Voltage Power Lines (400kV) **Existing Substations** Adjoining Farm Boundaries Application Site Other Renewable Energy Application Sites Proposed Power Line Corridor: Option 1 Proposed Power Line Corridor: Option 2 **Proposed Substation Site** Alternatives Potentially Sensitive **Receptor Locations** 5km Buffer SOURCE: ESKOM, 2012 BIOTHERM ENERGY, 2015 N SiVEST ENVIRONMENTAL DIVISION 51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG SOUTH AFRICA Phone: +27 11 798 0600 Fax: +27 11 803 7272 e-mail: info@sivest.co.za Kilometers Project No Map Ref No Prepared By Date 13031 13031/EA V01 KLS 27/08/2015 "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 AND MEETS THE REQUIREMENTS OF THE SETA QUALITY GRADING SYSTEM THAT IS ISO COMPLIANT



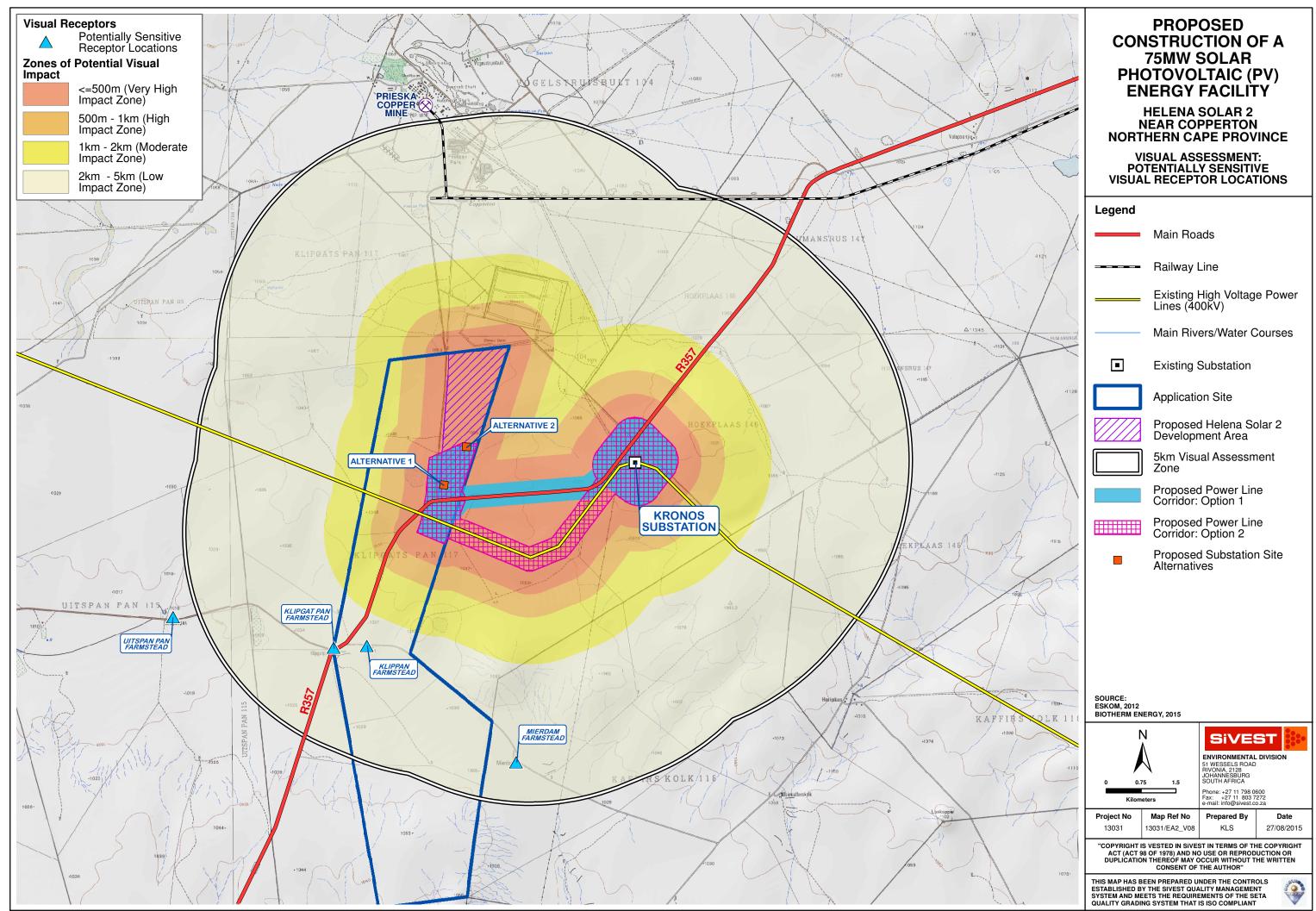
HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

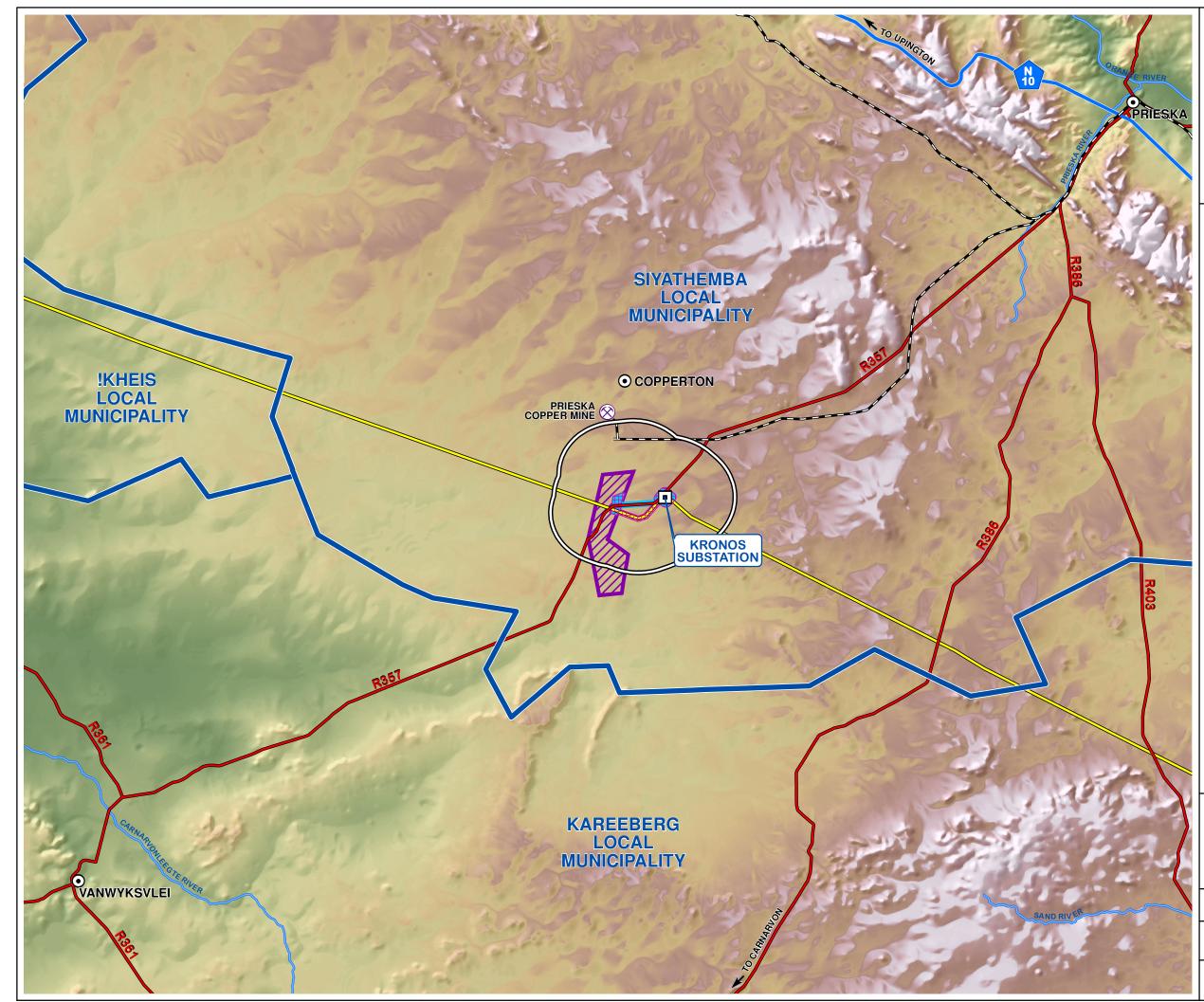
VISUAL ASSESSMENT: BROAD LAND COVER CLASSIFICATION

	Main Roa	ads			
	Railway I	Line			
	Existing L Lines (40	Existing High Voltage Power Lines (400kV)			
	Main Riv	ers/Water C	Courses		
	Existing	Substation			
	Application	on Site			
	Proposed Developr	d Helena So nent Area	olar 2		
	5km Visu Zone	ial Assessm	nent		
	Proposed Corridor:	d Power Lin Option 1	e		
	Proposed Corridor:	d Power Lin Option 2	е		
	Proposed Substation Site Alternatives				
SOURCE: ESKOM, 2012 BIOTHERM ENERGY, 2015 2013-2014 SA NATIONAL LAND COVER (© GEOTERRAIMAGE - 2014)					
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0 0.75 1.5		ENVIRONMENTAL 51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG SOUTH AFRICA			
Kilome		Phone: +27 11 798 0 Fax: +27 11 803 7 e-mail: info@sivest.c	600 272 o.za		
Project No 13031	Map Ref No	Prepared By KLS	Date 20/08/2015		
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 Main Road
Secondary Road
 Existing High Voltage Power Lines (400kV)
Kronos Substation Site
Application Site
Proposed Helena Solar 2 Development Area
Proposed Power Line Corridor: Option 1
Proposed Power Line Corridor: Option 2

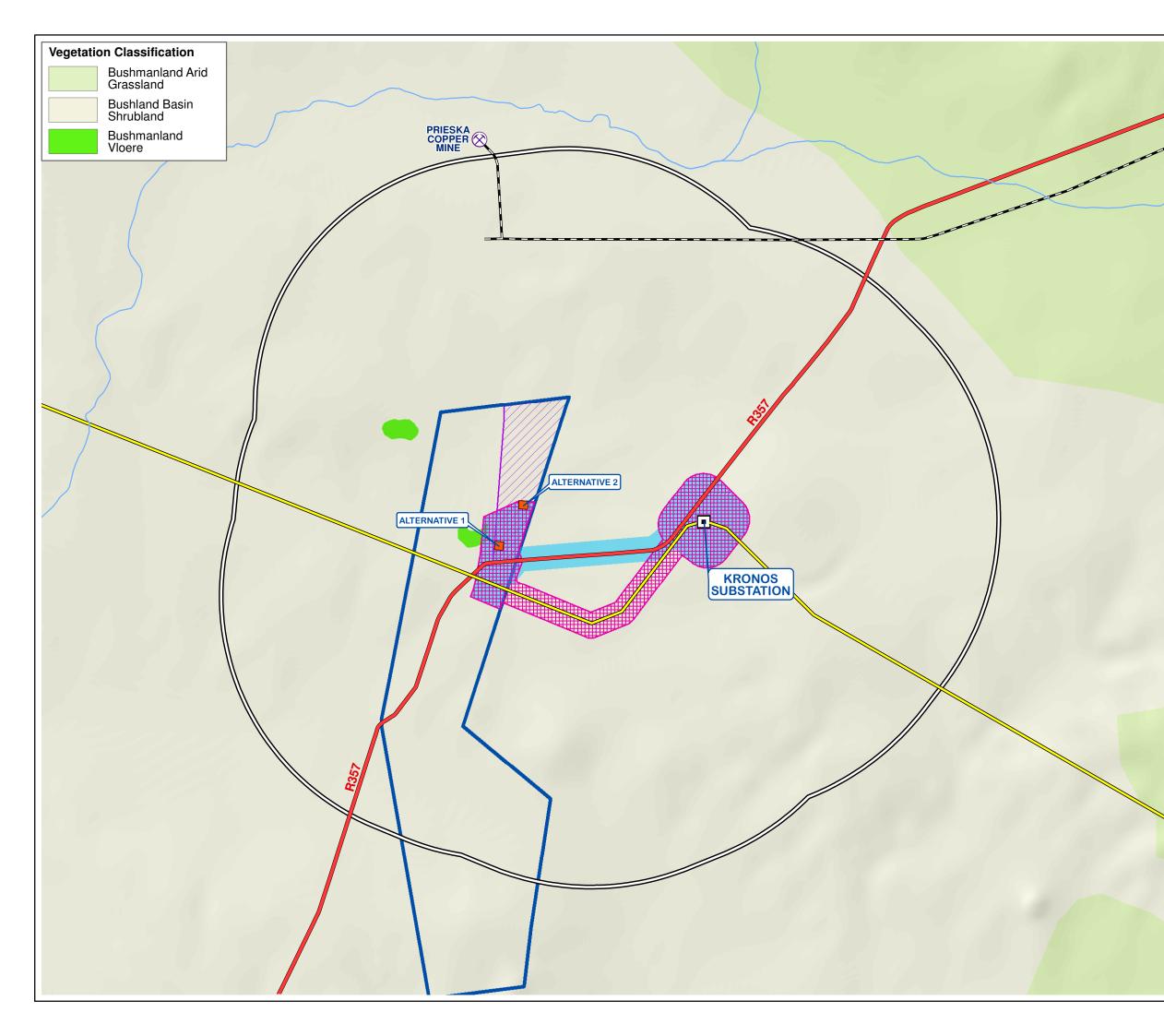




HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

> VISUAL ASSESSMENT: REGIONAL CONTEXT

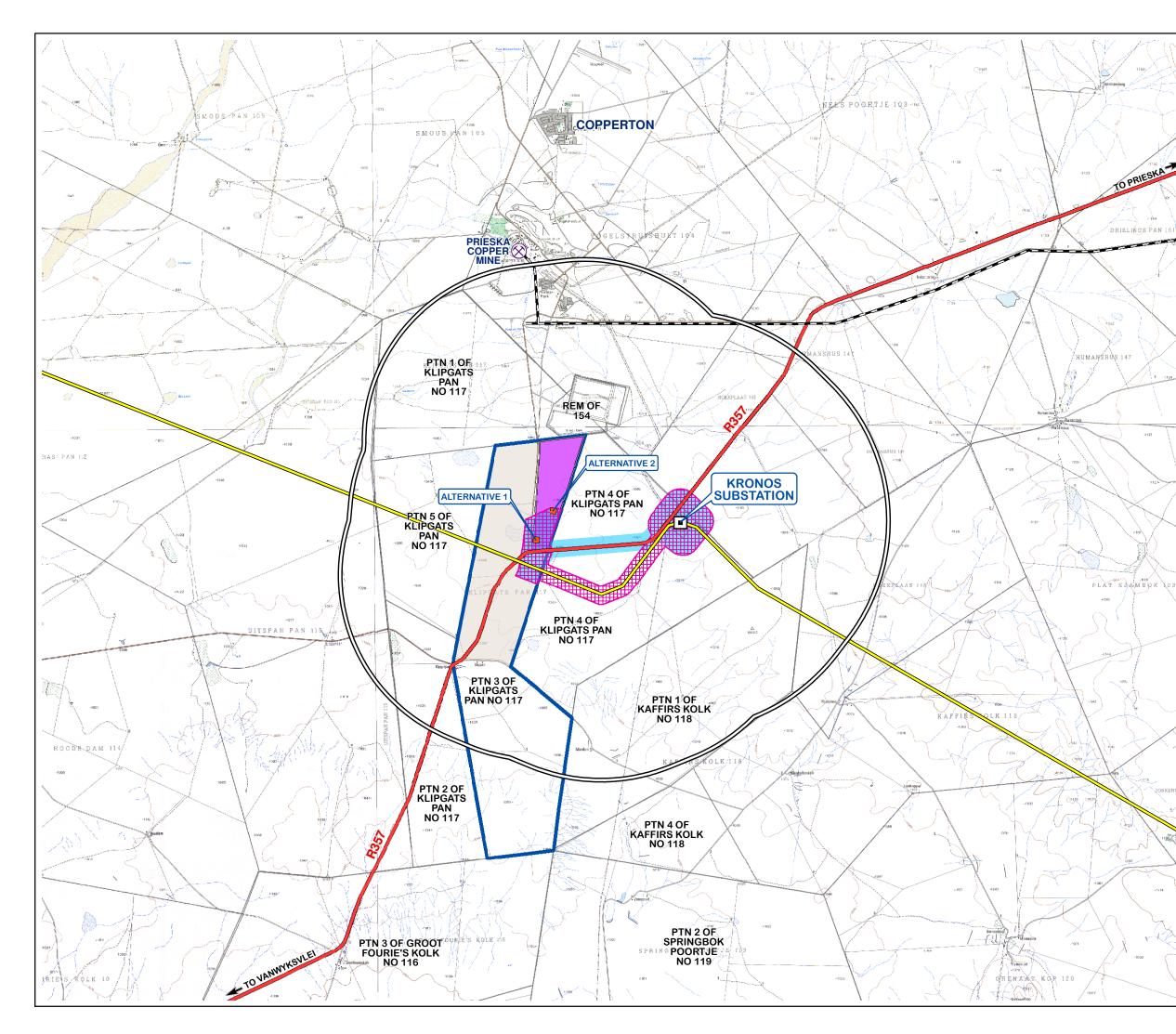
	Local Municipal Boundaries				
	National	National Route (N10)			
	Main Roa	Main Roads			
	Railway	Railway Line			
	Existing Lines (40	High Voltag )0kV)	e Power		
	Main Riv	ers			
$\odot$	Main Tov	vns			
▣	Kronos N	/ITS Substa	tion		
/////	Application	on Site			
	5km Visu Zone	ial Assessm	nent		
	Proposed Corridor:	d Power Lin Option 1	e		
	Proposed Power Line Corridor: Option 2				
SOURCE: ESKOM, 2012 MUNICIPAL DE NFEPA, 2011 NGI, 2014	EMARCATION BO	ARD, 2011			
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		ENVIRONMENTAL			
0 5 10 SOUTH AFRICA					
	neters	Phone: +27 11 798 0 Fax: +27 11 803 7	600 '272		
Project No	Map Ref No	e-mail: info@sivest.c Prepared By	Date		
13031	13031/EA2_V02	KLS	20/08/2015		
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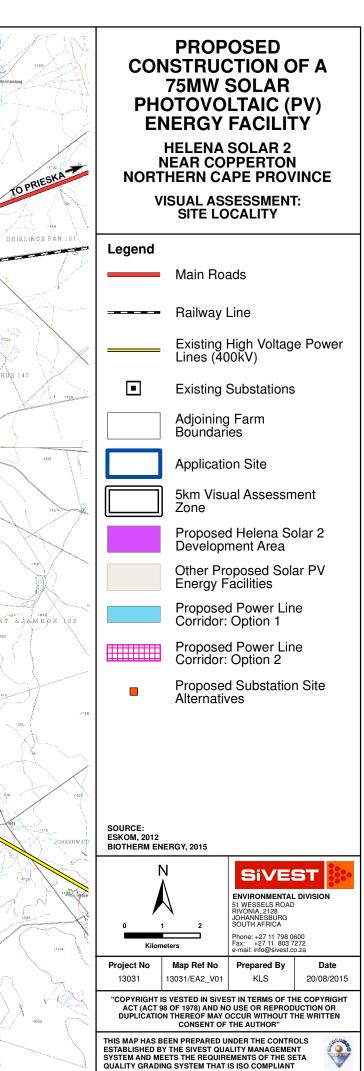


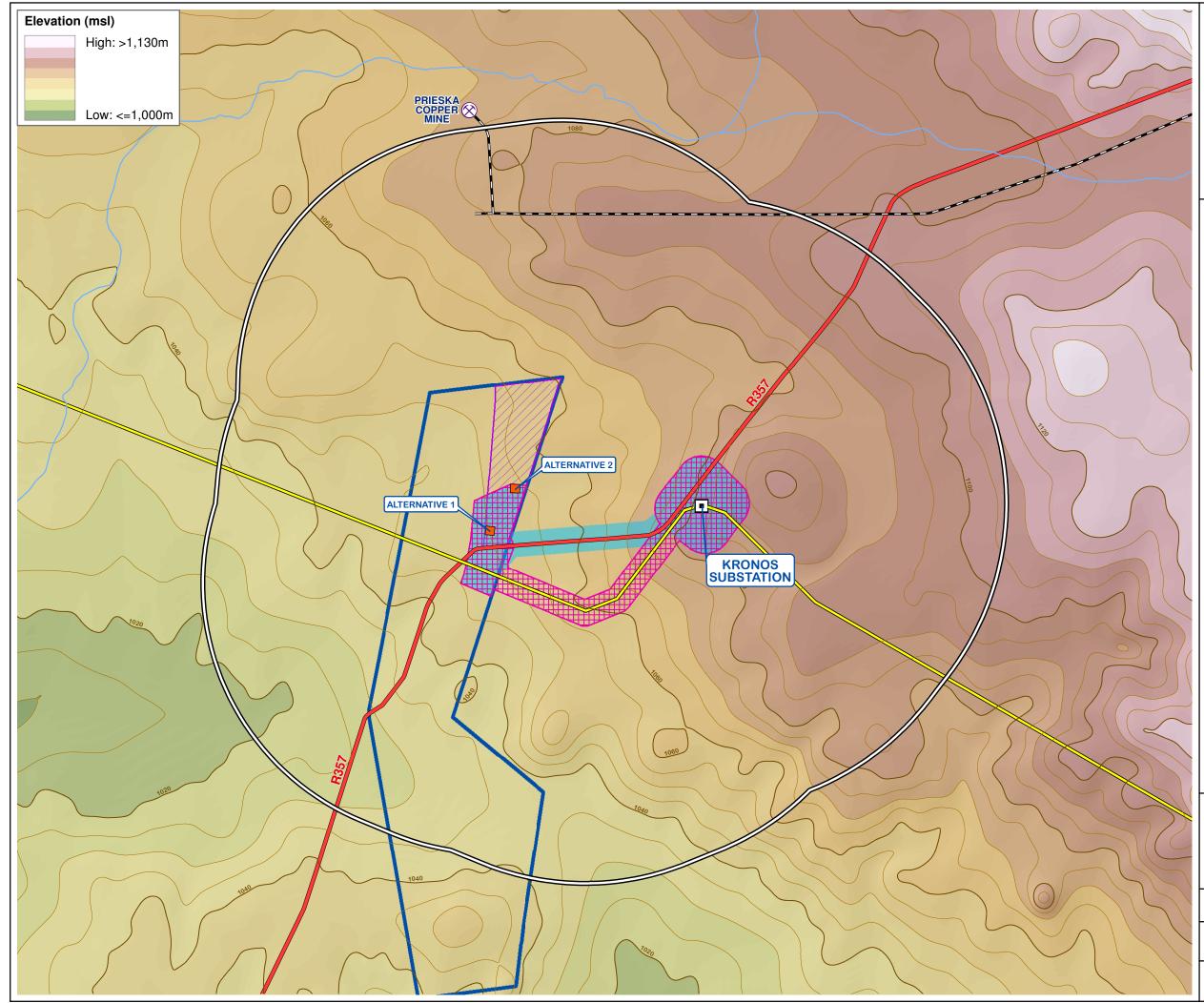
HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

VISUAL ASSESSMENT: VEGETATION CLASSIFICATION (SANBI 2006)

	Main Roa	Main Roads			
	Railway	Railway Line			
	Existing Lines (40	Existing High Voltage Power Lines (400kV)			
	Main Riv	ers/Water C	Courses		
▣	Existing	Substation			
	Application	on Site			
	Proposed Developr	d Helena So ment Area	olar 2		
	5km Visu Zone	ial Assessm	nent		
	Proposed Corridor:	d Power Lin Option 1	е		
	Proposed Corridor:	d Power Lin Option 2	е		
	Proposed Substation Site Alternatives				
SOURCE: ESKOM, 2012 BIOTHERM ENERGY, 2015 SANBI, 2006					
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ENVIRONMENTAL DIVISION 51 WESSELS ROAD RIVONIA, 2128 JOHANNESBURG					
0 0.7 Kilom		SOUTH AFRICA Phone: +27 11 798 0 Fax: +27 11 803 7	600 272		
Project No 13031	Map Ref No 13031/EA2 V05	e-mail: info@sivest.c Prepared By KLS	Date 20/08/2015		
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HELENA SOLAR 2 NEAR COPPERTON NORTHERN CAPE PROVINCE

#### VISUAL ASSESSMENT: TOPOGRAPHY

Ailway Line         Existing High Voltage Power Lines (400KV)         Main Rivers/Water Courses         Contours (20m Interval)         Contours (20m Interval)         Contours (5m Interval)         Existing Substation         Application Site         Proposed Helena Solar 2 Development Area         Skm Visual Assessment Zone         Proposed Power Line Corridor: Option 1         Proposed Power Line Corridor: Option 2         Proposed Substation Site Alternatives         Statematives         Statematives         Statematives	- 3	Main Roa	ads			
Lines (400kV)           Main Rivers/Water Courses           Contours (20m Interval)           Contours (5m Interval)           Existing Substation           Application Site           Proposed Helena Solar 2           Development Area           Skm Visual Assessment           Proposed Power Line           Corridor: Option 1           Proposed Power Line           Corridor: Option 2           Proposed Substation Site           Proposed Substation Site           Proposed Power Line           Corridor: Option 2           Proposed Substation Site           Proposed Substation Site           Nuternatives           Source:           Eskow, 2012           BIOTHERM ENERGY, 2015           Nal, 2014           Nag Ref No           Yespiect No           Map Ref No           Propered By           Notif Hamon           Notif Hamon           Notif Hamon           Notif Hamon           Map Ref No           Propered By           Notif Hamon           Notif Hamon           Notif Hamon           Notif Hamon           Notif Hamon           Notif Ham		Railway	Railway Line			
Contours (20m Interval)         Contours (5m Interval)         Existing Substation         Application Site         Proposed Helena Solar 2         Development Area         Skm Visual Assessment         Corridor: Option 1         Proposed Power Line         Corridor: Option 2         Proposed Power Line         Corridor: Option 2         Proposed Substation Site         Proposed Substation Site         Proposed Substation Site         Proposed Power Line         Corridor: Option 2         Proposed Substation Site         Sternatives         Viewnaktives         Substation Site         Corridor: Option 2         Proposed Substation Site         Corridor: Option 2         Proposed Substation Site         Substation Site         Substation Site         Corridor: Substation Site         Substation Site         Proposed Substation Site         Substation         Substation         Substation         Substation         Substation         Substation         Substation         Substation         Substation <th></th> <th>Existing Lines (40</th> <th colspan="3">Existing High Voltage Power Lines (400kV)</th>		Existing Lines (40	Existing High Voltage Power Lines (400kV)			
Contours (5m Interval) Contours (5m Interval) Existing Substation Application Site Application Site Proposed Helena Solar 2 Development Area Skm Visual Assessment Skm Visual Assessment Source: Proposed Power Line Corridor: Option 1 Proposed Power Line Corridor: Option 2 Proposed Substation Site Atternatives SOURCE: BIOTHERENERSY, 2015 NG, 2014 Note: Toget No 13031 13031/EA2_V03 Coopyrnight is vested in Sivest in TERMS of The Copyrnight Control or of the Author. Control of the Sivest in TERMS of the Copyrnight KLS Control of the Sivest in TERMS of the Copyrnight Control of the Sivest in TERMS of the Copyrnight Control of the Sivest in TERMS of the Copyrnight Control of the Sivest in TERMS of the Copyrnight is vested in Sivest in TERMS of the Copyrnight Control of the Sivest in TERMS of the Copyrnight is vested in Sivest in TERMS of the Copyrnight is vested in Sivest in TERMS of the Copyrnight is vested in Sivest in TERMS of the Copyrnight is vested in Sivest in TERMS of the Copyrnight and No Use of REPRODUCTION of the Copyrnight is vested in Sivest in TERMS of		Main Riv	ers/Water C	Courses		
<ul> <li>Existing Substation</li> <li>Application Site</li> <li>Proposed Helena Solar 2 Development Area</li> <li>Skm Visual Assessment Zone</li> <li>Proposed Power Line Corridor: Option 1</li> <li>Proposed Power Line Corridor: Option 2</li> <li>Proposed Substation Site Alternatives</li> </ul> SOURCE: SSOURCE: SSOURCE: SSOURCE: SSOURCE: SSOURCE: SOURCE: SOUR		Contours	(20m Inter	val)		
Application Site         Application Site         Proposed Helena Solar 2         Development Area         Skm Visual Assessment         Corridor: Option 1         Proposed Power Line         Corridor: Option 2         Proposed Power Line         Corridor: Option 2         Proposed Substation Site         Alternatives		Contours	s (5m Interva	al)		
Proposed Helena Solar 2         Development Area         Skm Visual Assessment         Corridor: Option 1         Proposed Power Line         Corridor: Option 1         Proposed Power Line         Corridor: Option 2         Proposed Substation Site         Alternatives         Source:         SSOURCE:         SSURCE:         Source:         Bothernatives         Source:	∎	Existing	Substation			
Development Area         Development Area         Skm Visual Assessment         Cone         Proposed Power Line         Corridor: Option 1         Proposed Power Line         Corridor: Option 2         Proposed Substation Site         Alternatives         SOURCE:         ESKOM, 2012         BIOTHERM ENERGY, 2015         NGI, 2014         Notes and the state of		Application	on Site			
Zone         Proposed Power Line Corridor: Option 1         Proposed Power Line Corridor: Option 2         Proposed Substation Site Alternatives         Proposed Substation Site Alternatives         SOURCE: ESKOM, 2012 BIOTHERM ENERGY, 2015 NGI, 2014         Notesting		Proposed Developr	d Helena So ment Area	olar 2		
Corridor: Option 1 Proposed Power Line Corridor: Option 2 Proposed Substation Site Alternatives SOURCE: ESKOM, 2012 BIOTHERM ENERGY, 2015 NGI, 2014 N 0 0 0 0 0 0 0 0 15 Kilometers Proposed Substation Site Alternatives SOURCE: ESKOM, 2012 BIOTHERM ENERGY, 2015 NGI, 2014 N 0 0 0 0 0 0 0 0 15 Kilometers Proposed Substation Site Alternatives SOURCE: ESKOM, 2012 BIOTHERM ENERGY, 2015 NGI, 2014 N 0 0 0 0 0 0 0 0 0 0 0 0 0			ial Assessm	nent		
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Kilometers         Phone: +27 11 798 0600 Fax: +27 11 803 7272 e-mail: info@sivest.co.za           Project No         Map Ref No         Prepared By         Date           13031         13031/EA2_V03         KLS         20/08/2015           "COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 0F 1978) AND NO USE OR REPRODUCTION OR DUPLICATION THEREOF MAY OCCUR WITHOUT THE WRITTEN CONSENT OF THE AUTHOR"		N	RIVONIA, 2128 JOHANNESBURG			
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