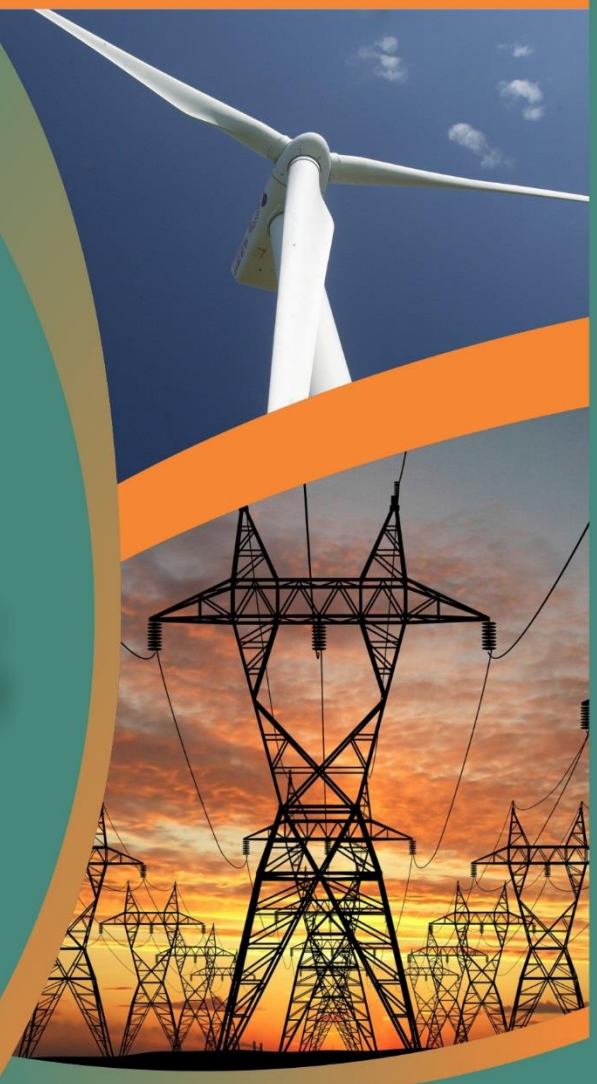
BASIC ASSESSMENT REPORT

Basic Assessment for the Proposed Construction and Operation of Electrical Grid Infrastructure to support the Sutherland, Sutherland 2 and Rietrug Wind Energy Facilities (WEFs), Northern and Western Cape Provinces

SECTION F: APPENDICES



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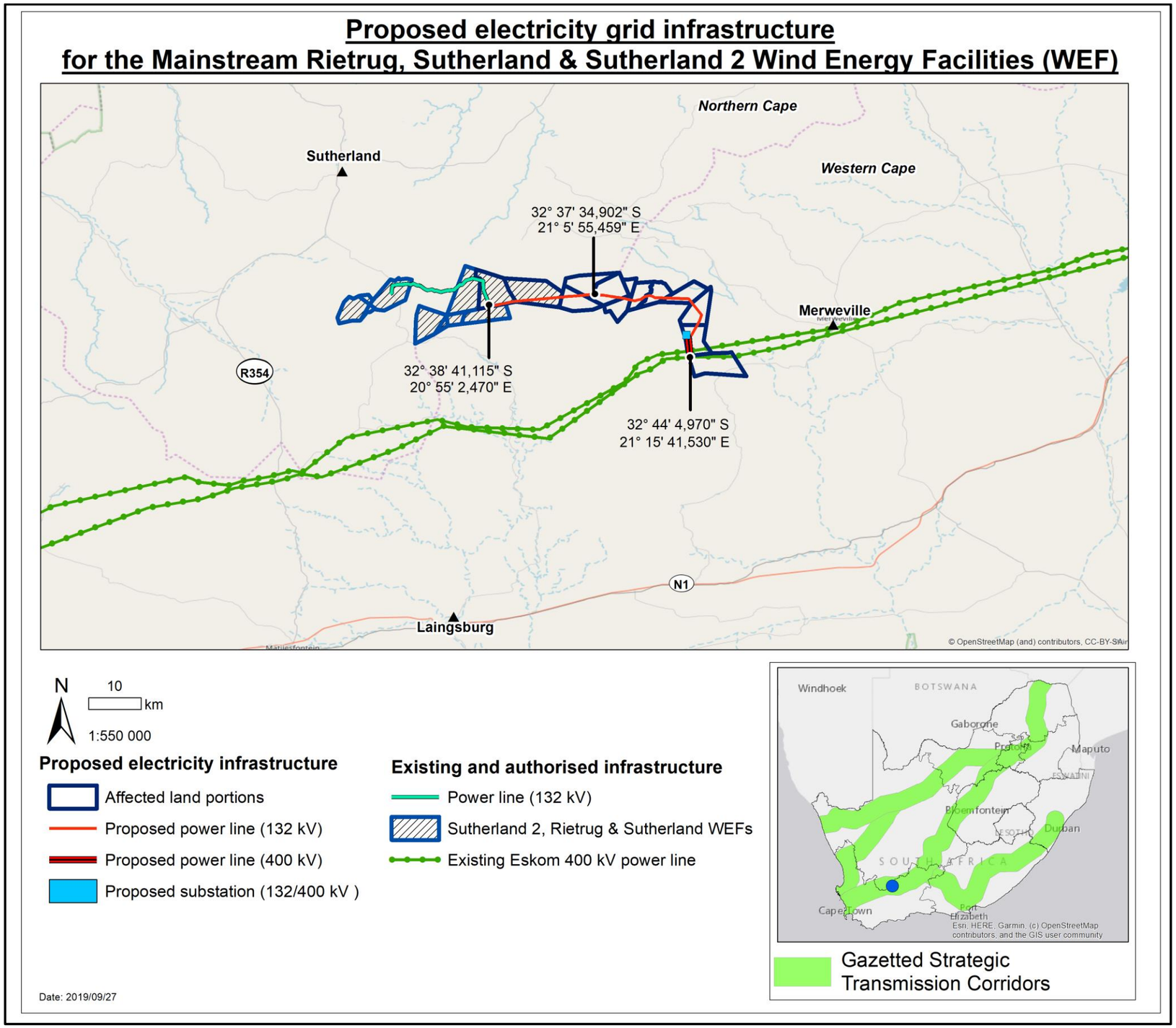
BASIC ASSESSMENT REPORT

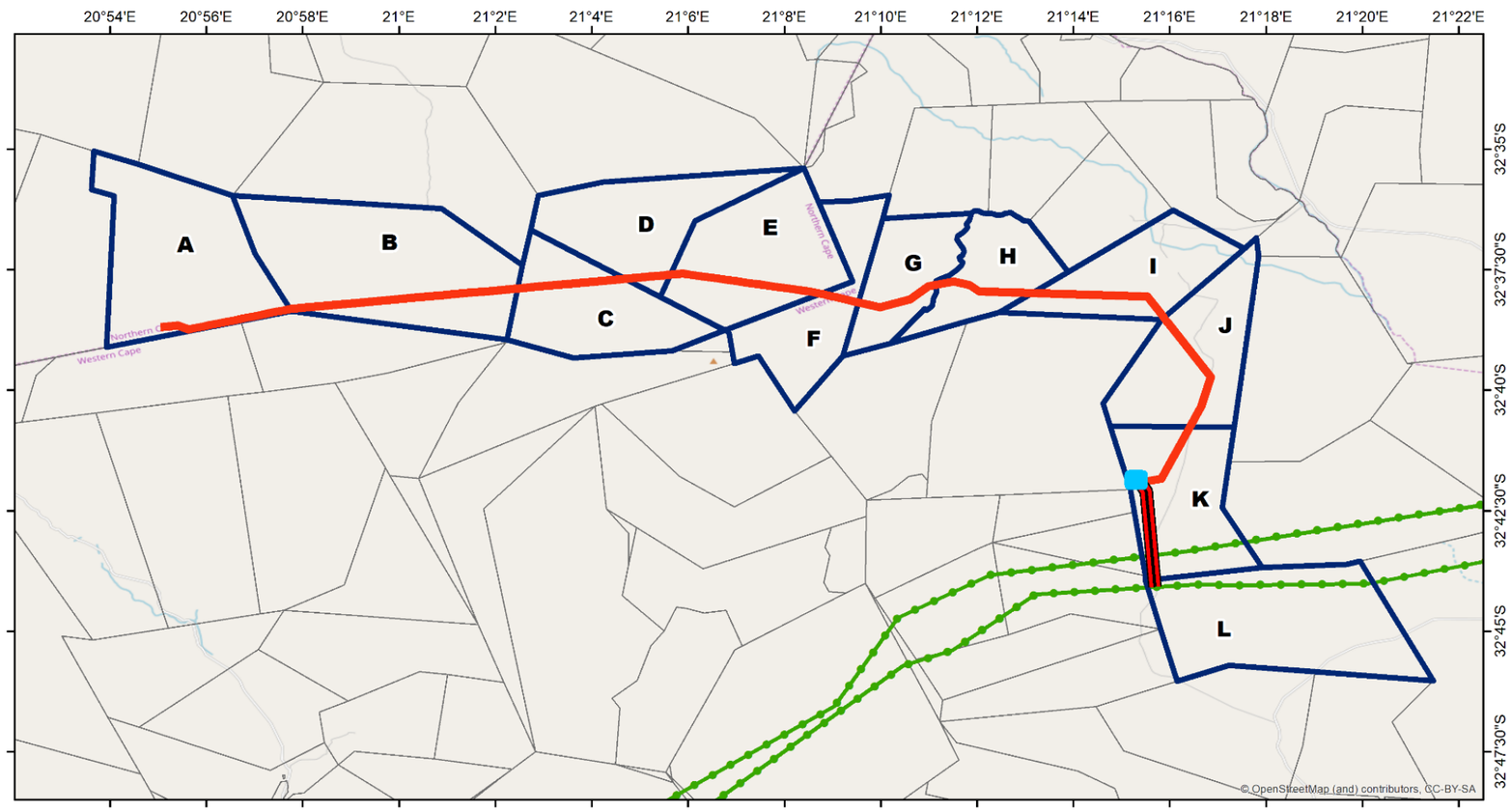
APPENDIX A: MAPS

contents

Appendix A.1: Locality Maps



Proposed electricity grid infrastructure for the Mainstream Rietrug, Sutherland & Sutherland 2 Wind Energy Facilities (WEF)



N

10 km

1:150 000

Affected land portions

Proposed power line (132 kV)

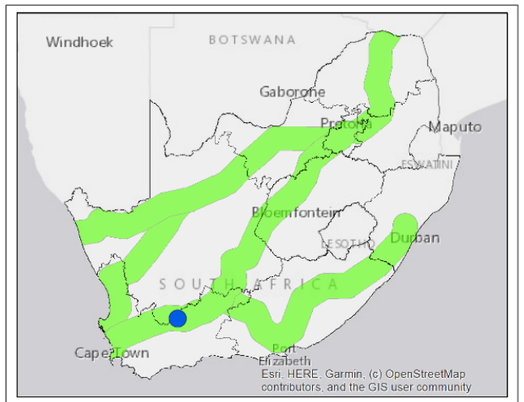
Proposed power line (400 kV)

Proposed substation (132/400 kV)

Existing Eskom 400 kV power line

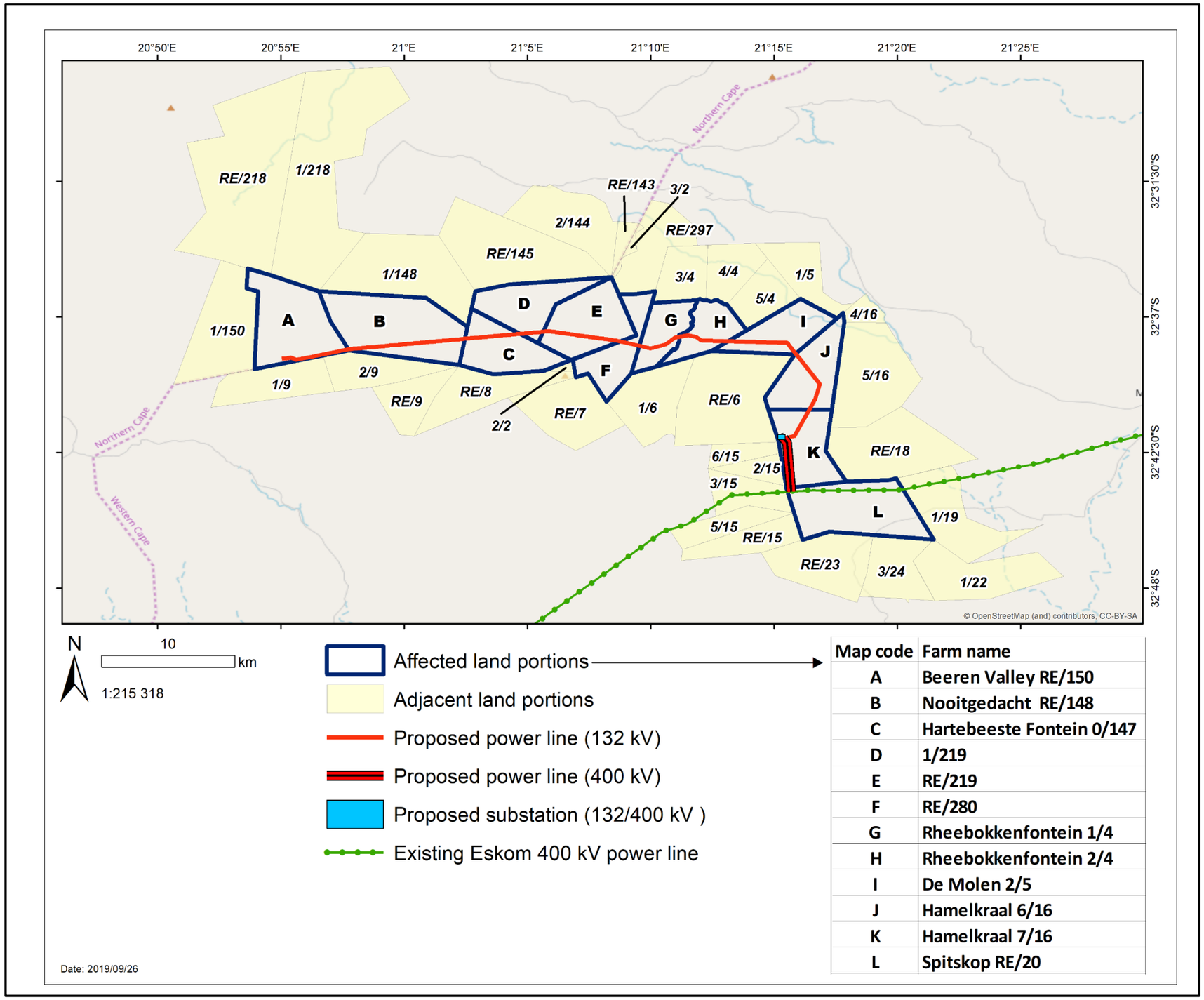
Date: 2019/09/25

Map code	Farm name
A	Beeren Valley RE/150
B	Nooitgedacht RE/148
C	Hartebeeste Fontein 0/147
D	1/219
E	RE/219
F	RE/280
G	Rheebokkenfontein 1/4
H	Rheebokkenfontein 2/4
I	De Molen 2/5
J	Hamelkraal 6/16
K	Hamelkraal 7/16
L	Spitskop RE/20



Gazetted Strategic Transmission Corridors

Appendix A.2: Layout Maps/Route Plan



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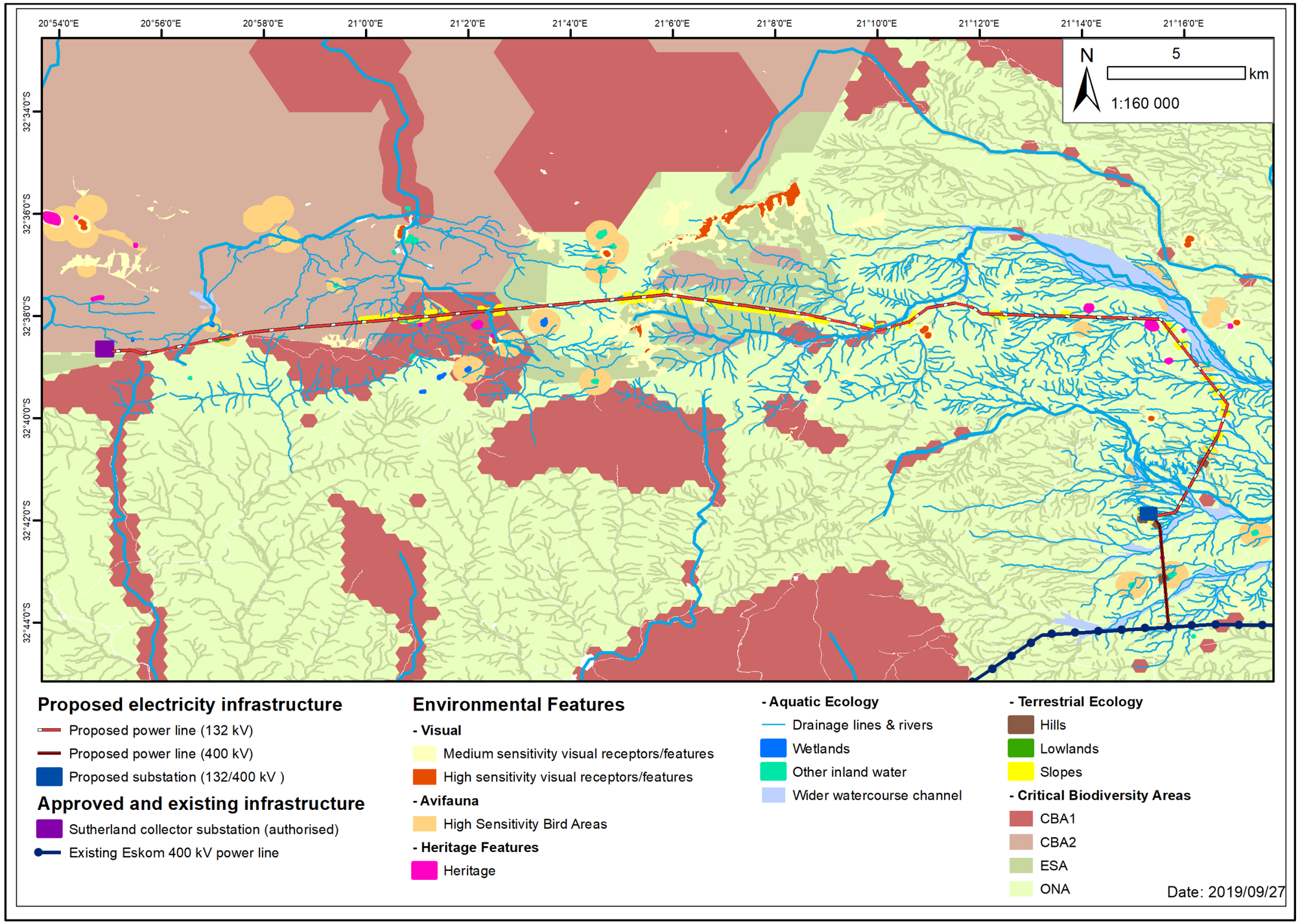
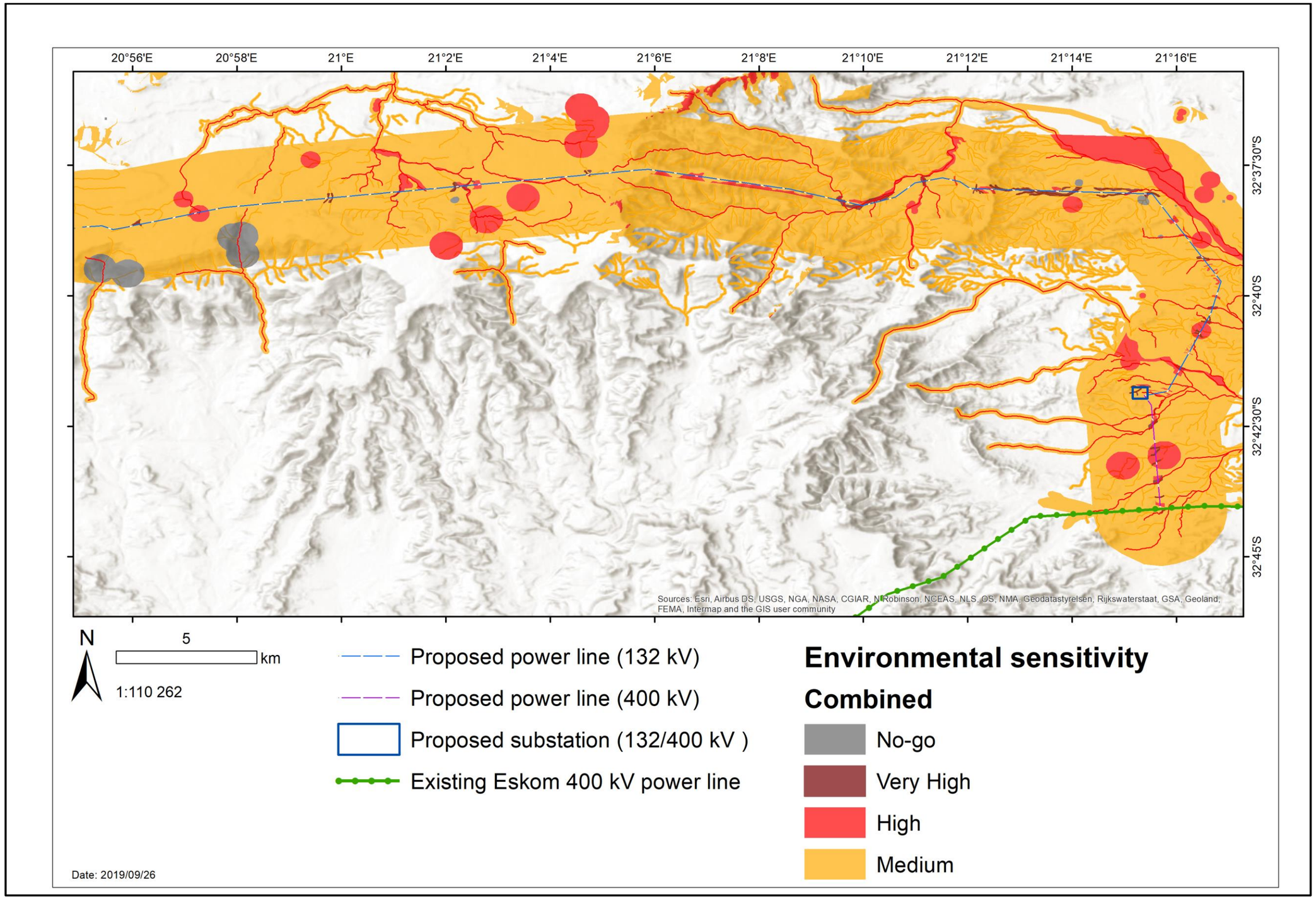
K	Hamelkraal 7/16
L	Spitskop RE/20

Appendix A.3: Environmental Features Maps

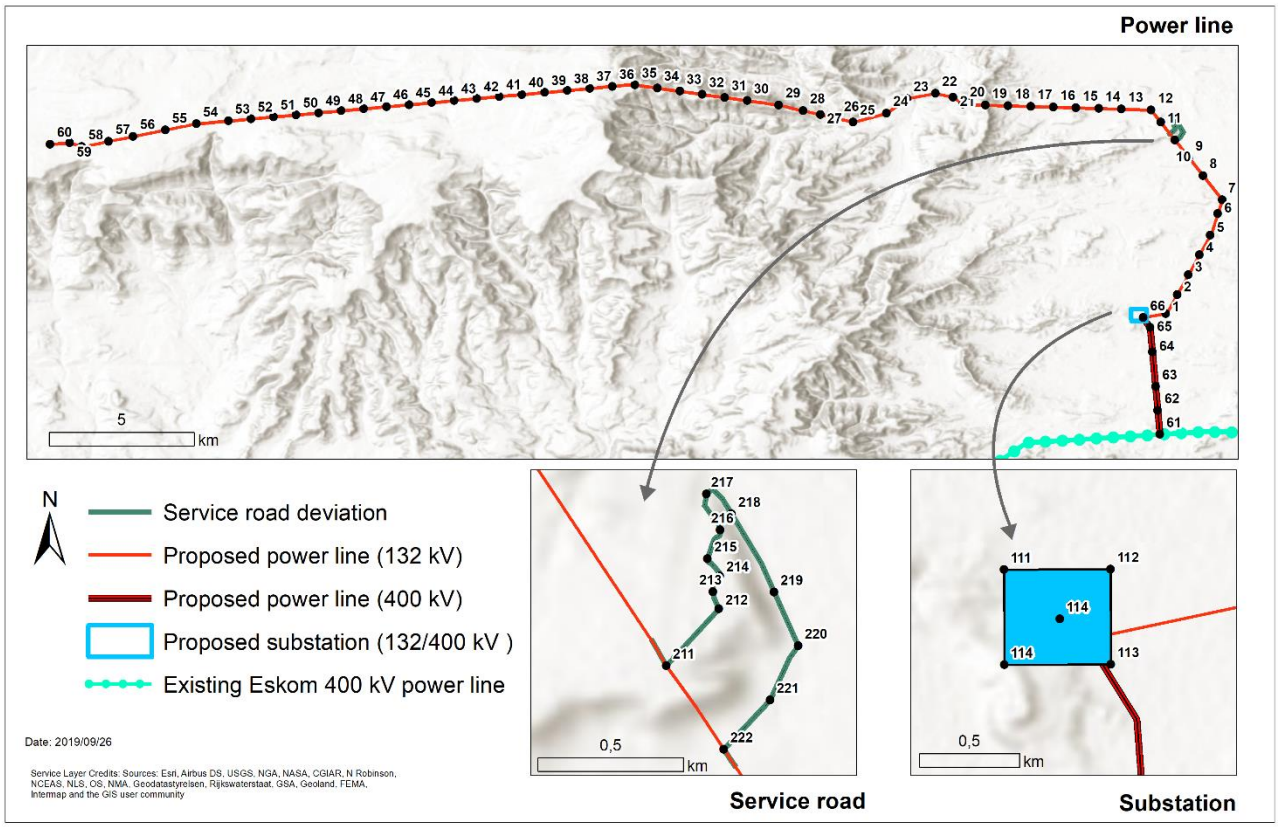


Appendix A.4: Sensitivity Map



Appendix A.5: Approximate Project Co-ordinates

The co-ordinates provided in this Appendix correspond to the points illustrated in the map below.



1. Co-ordinates along the proposed 132 kV power line

	Degrees Minutes Seconds Format				Degrees Minutes Seconds Format	
Point ID	**Latitude**	**Longitude**		**Point ID**	**Latitude**	**Longitude**
1	32° 41' 50,206" S	21° 15' 48,138" E		31	32° 37' 48,992" S	21° 7' 35,764" E
2	32° 41' 28,953" S	21° 16' 1,069" E		32	32° 37' 45,471" S	21° 7' 10,688" E
3	32° 41' 6,820" S	21° 16' 13,371" E		33	32° 37' 41,950" S	21° 6' 45,611" E
4	32° 40' 44,686" S	21° 16' 25,673" E		34	32° 37' 38,427" S	21° 6' 20,535" E
5	32° 40' 22,553" S	21° 16' 37,975" E		35	32° 37' 34,902" S	21° 5' 55,459" E
6	32° 39' 58,687" S	21° 16' 46,275" E		36	32° 37' 36,559" S	21° 5' 30,255" E
7	32° 39' 43,320" S	21° 16' 51,194" E		37	32° 37' 38,840" S	21° 5' 5,036" E
8	32° 39' 16,240" S	21° 16' 29,803" E		38	32° 37' 41,119" S	21° 4' 39,816" E
9	32° 38' 56,369" S	21° 16' 14,107" E		39	32° 37' 43,397" S	21° 4' 14,596" E
10	32° 38' 36,498" S	21° 15' 58,411" E		40	32° 37' 45,674" S	21° 3' 49,376" E
11	32° 38' 16,635" S	21° 15' 42,721" E		41	32° 37' 47,949" S	21° 3' 24,156" E
12	32° 38' 3,035" S	21° 15' 31,978" E		42	32° 37' 50,223" S	21° 2' 58,936" E
13	32° 38' 2,059" S	21° 14' 58,678" E		43	32° 37' 52,495" S	21° 2' 33,716" E
14	32° 38' 1,316" S	21° 14' 33,367" E		44	32° 37' 54,766" S	21° 2' 8,495" E
15	32° 38' 0,574" S	21° 14' 8,055" E		45	32° 37' 57,036" S	21° 1' 43,275" E
16	32° 37' 59,832" S	21° 13' 42,744" E		46	32° 37' 59,304" S	21° 1' 18,054" E
17	32° 37' 59,089" S	21° 13' 17,432" E		47	32° 38' 1,571" S	21° 0' 52,833" E

	Degrees Minutes Seconds Format				Degrees Minutes Seconds Format	
Point ID	Latitude	Longitude		Point ID	Latitude	Longitude
18	32° 37' 58,347" S	21° 12' 52,121" E		48	32° 38' 3,836" S	21° 0' 27,612" E
19	32° 37' 57,604" S	21° 12' 26,809" E		49	32° 38' 6,100" S	21° 0' 2,391" E
20	32° 37' 56,243" S	21° 12' 1,697" E		50	32° 38' 8,362" S	20° 59' 37,170" E
21	32° 37' 48,914" S	21° 11' 50,824" E		51	32° 38' 10,623" S	20° 59' 11,949" E
22	32° 37' 44,377" S	21° 11' 30,883" E		52	32° 38' 12,883" S	20° 58' 46,727" E
23	32° 37' 50,128" S	21° 10' 59,162" E		53	32° 38' 15,141" S	20° 58' 21,506" E
24	32° 38' 6,574" S	21° 10' 36,481" E		54	32° 38' 18,340" S	20° 57' 45,750" E
25	32° 38' 16,379" S	21° 9' 59,290" E		55	32° 38' 25,284" S	20° 57' 11,131" E
26	32° 38' 12,398" S	21° 9' 41,225" E		56	32° 38' 32,498" S	20° 56' 35,154" E
27	32° 38' 8,120" S	21° 9' 22,575" E		57	32° 38' 37,973" S	20° 56' 7,836" E
28	32° 38' 3,708" S	21° 9' 3,346" E		58	32° 38' 44,005" S	20° 55' 37,732" E
29	32° 37' 57,457" S	21° 8' 36,111" E		59	32° 38' 39,368" S	20° 55' 24,418" E
30	32° 37' 52,510" S	21° 8' 0,841" E		60	32° 38' 41,115" S	20° 55' 2,470" E

2. Co-ordinates along the proposed 400 kV power line

	Degrees Minutes Seconds Format	
Point ID	Latitude	Longitude
61	32° 44' 4,970" S	21° 15' 41,530" E
62	32° 43' 38,308" S	21° 15' 39,155" E
63	32° 43' 11,645" S	21° 15' 36,779" E
64	32° 42' 32,806" S	21° 15' 33,319" E
65	32° 42' 5,664" S	21° 15' 30,901" E
66	32° 41' 54,652" S	21° 15' 23,209" E

3. Co-ordinates along the proposed Service Road Deviation

	Degrees Minutes Seconds Format	
Point ID	Latitude	Longitude
211	32° 38' 29,589" S	21° 15' 52,714" E
212	32° 38' 24,274" S	21° 15' 58,568" E
213	32° 38' 22,669" S	21° 15' 57,924" E
214	32° 38' 21,186" S	21° 15' 58,694" E
215	32° 38' 19,565" S	21° 15' 57,325" E
216	32° 38' 16,874" S	21° 15' 58,740" E
217	32° 38' 13,507" S	21° 15' 57,186" E
218	32° 38' 15,349" S	21° 16' 0,000" E
219	32° 38' 22,702" S	21° 16' 4,748" E
220	32° 38' 27,723" S	21° 16' 7,425" E
221	32° 38' 32,831" S	21° 16' 4,315" E
222	32° 38' 37,440" S	21° 15' 59,142" E

4. Corner Point Co-ordinates and Mid-Point of the Proposed Major Transmission Substation

		Degrees Minutes Seconds Format	
	Point	**Latitude**	**Longitude**
Top left	111	32° 41' 45,235" S	21° 15' 9,373" E
Top right	112	32° 41' 45,200" S	21° 15' 26,639" E
Bottom right	114	32° 41' 58,225" S	21° 15' 9,410" E
Bottom left	113	32° 41' 58,190" S	21° 15' 26,677" E
Centre	114	32° 41' 51,998" S	21° 15' 18,445" E