

FIGURE 1.1a: LOCATION OF THE PROPOSED KOMSBERG EAST WEF.

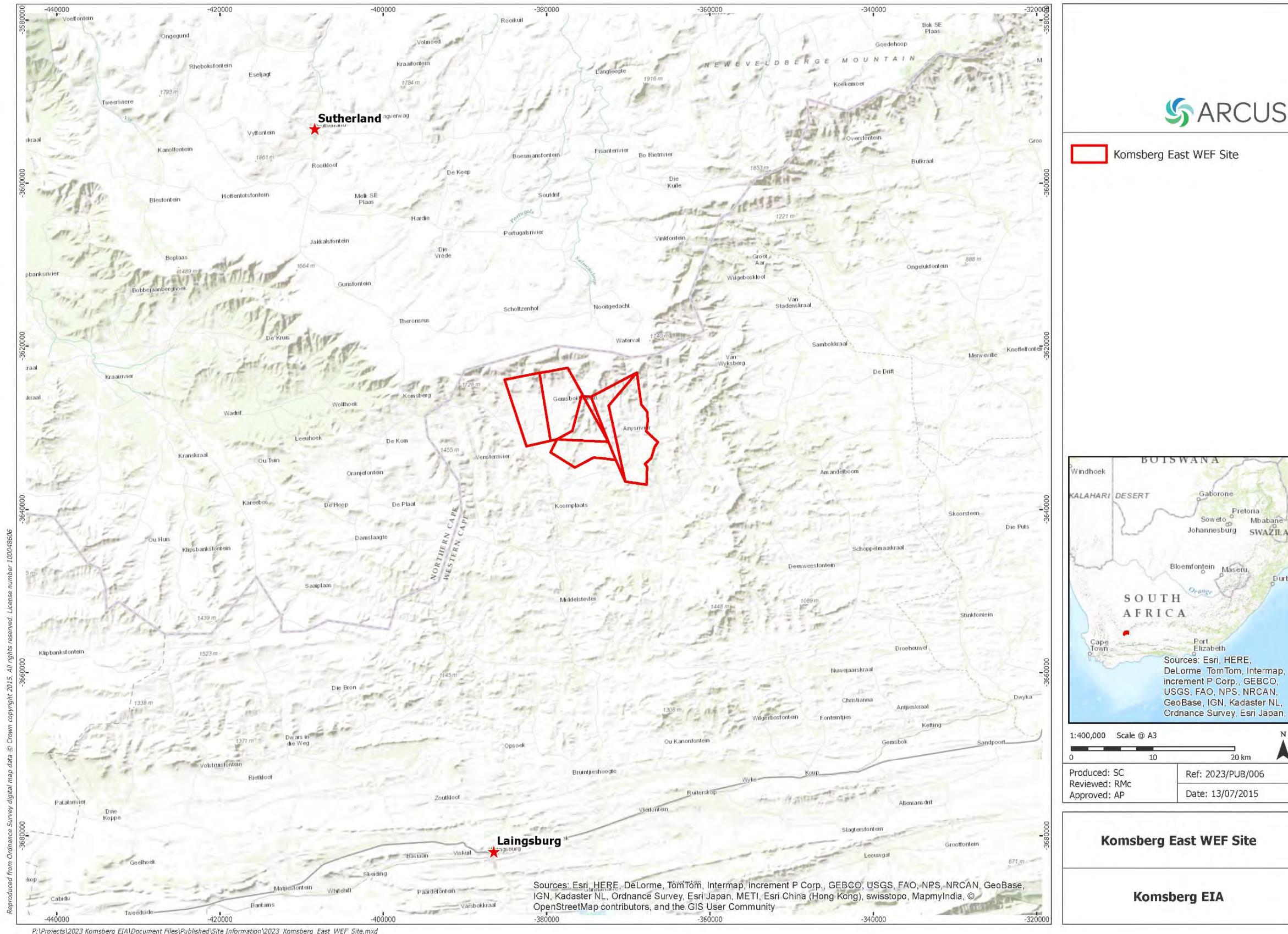


FIGURE 1.1b: LOCATION OF THE PROPOSED KOMSBERG EAST WEF.

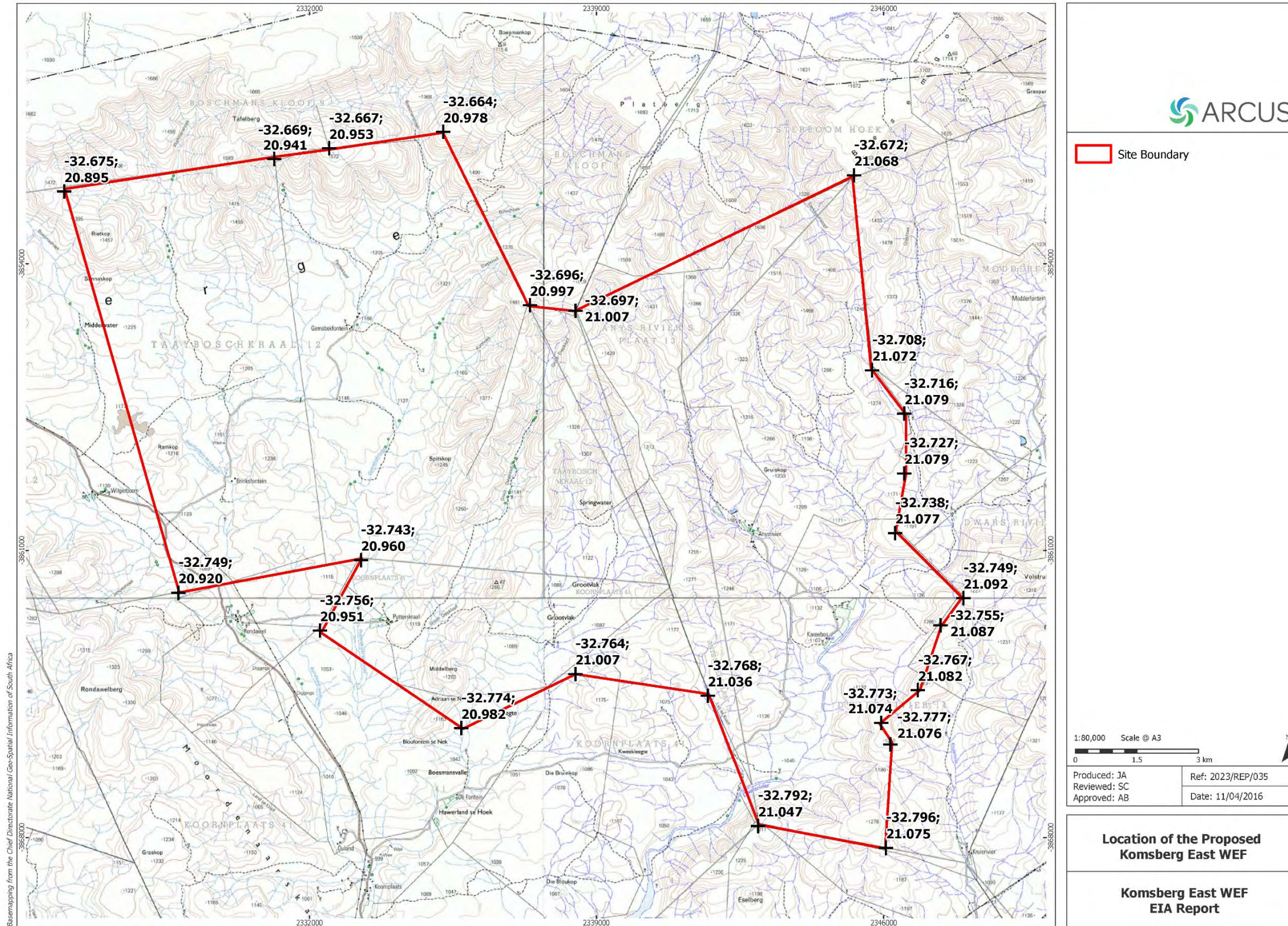
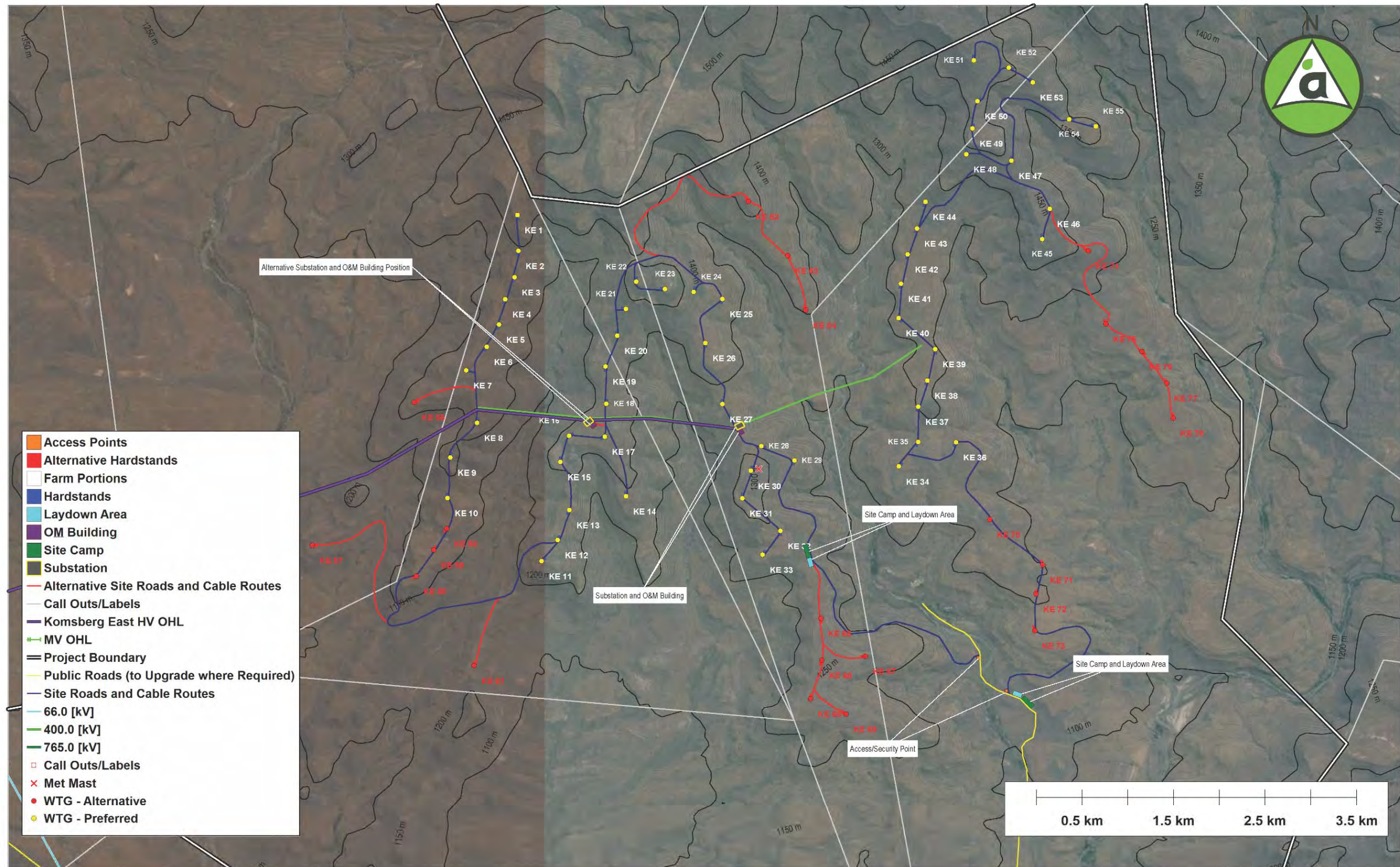


FIGURE 1.3: ALTERNATIVE LAYOUT OF THE PROPOSED KOMSBERG EAST WEF.



<p>CAPE TOWN AURECON CENTRE 1 CENTURY CITY DRIVE WATERFORD PRECINCT CENTURY CITY, 7411 TEL +27 21 526 9400 FAX +27 21 526 9500</p>		REV	DATE	REVISION DETAILS	APPROVED	DRAWN	DESIGNED	PROJECT	SKETCH ONLY - NOT FOR CONSTRUCTION	
		0	6/10/2015	ISSUED FOR ENVIRONMENTAL REVIEW	NA	T. FICK	S. EGLINTON	KOMSBERG EAST WIND FARM	PROJECT No.	
									111391	
									TITLE	
									SITE DEVELOPMENT PLAN PREFERRED AND ALTERNATIVE	
							APPROVED	DRAWING No.	SCALE	SIZE
							NA		AS INDICATED	A3
										REV
										0

FIGURE 1.4 PROPOSED LAYOUT OF THE GRID CONNECTIONS INDICATING THE LOCATION OF THE PROPOSED SWITCHING STATION ON SITE, THE TRANSMISSION LINE CORRIDORS, AND THE ESKOM MAIN SUBSTATION.

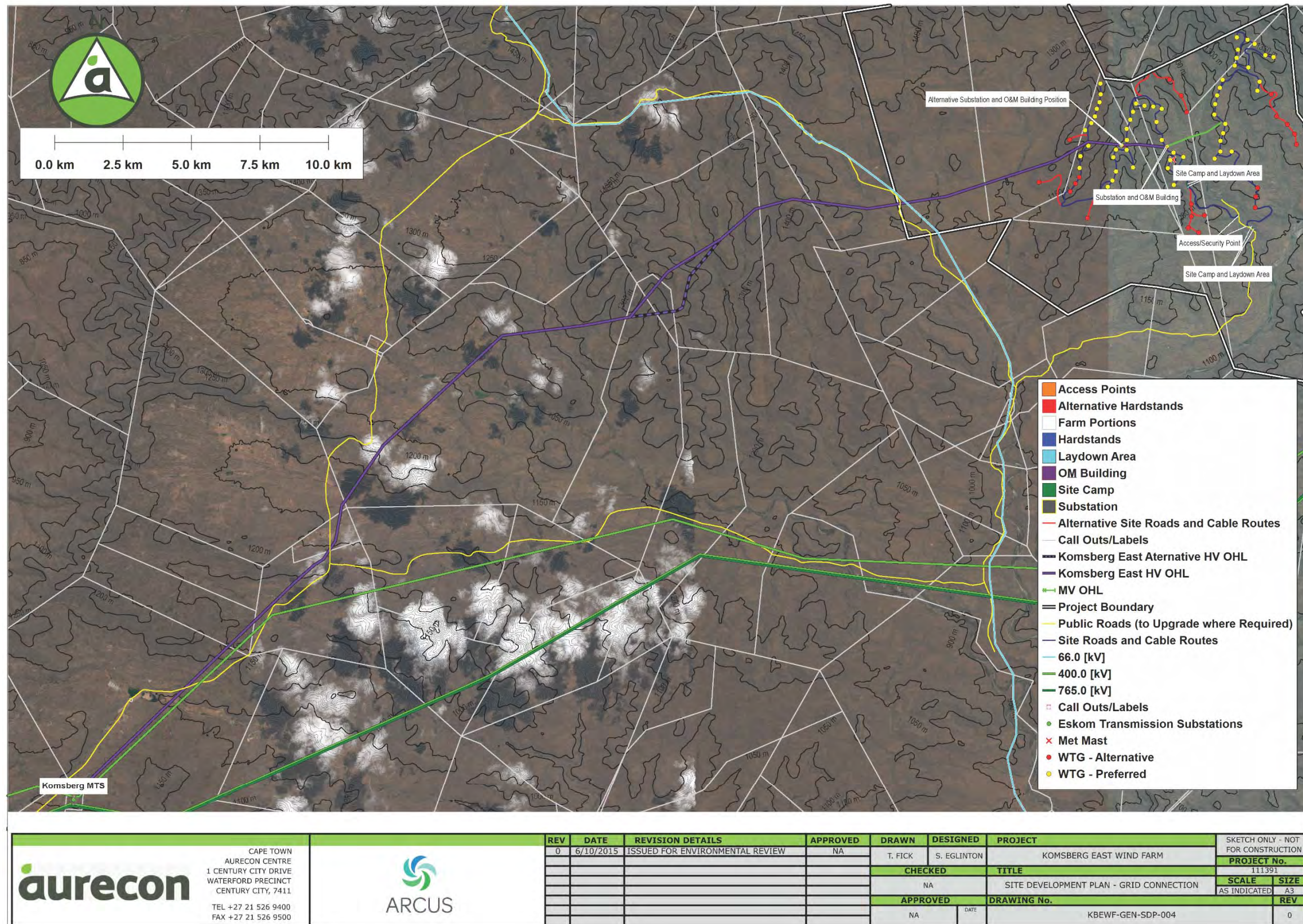


FIGURE 1.5 SLOPE ANALYSIS MAP.

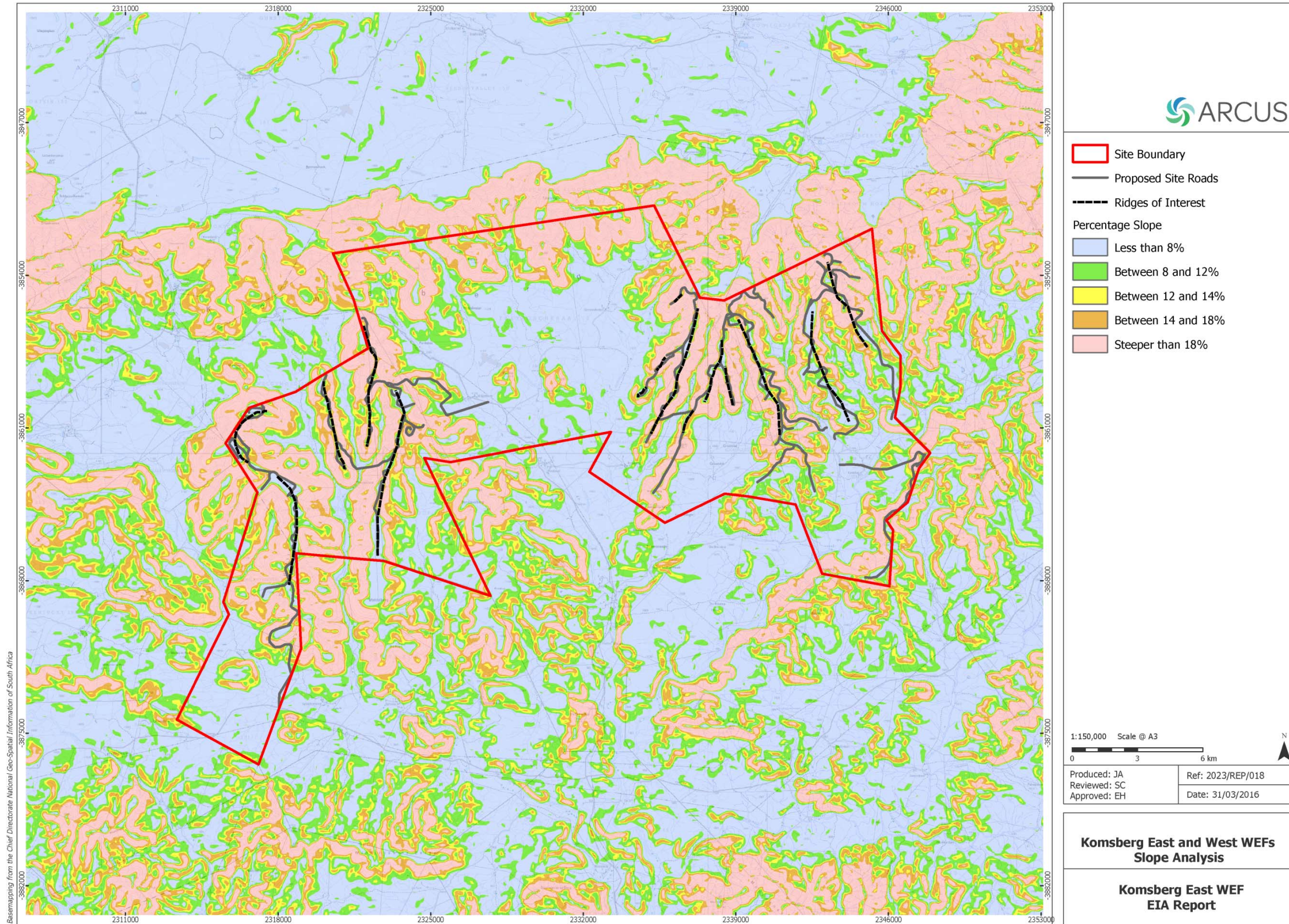
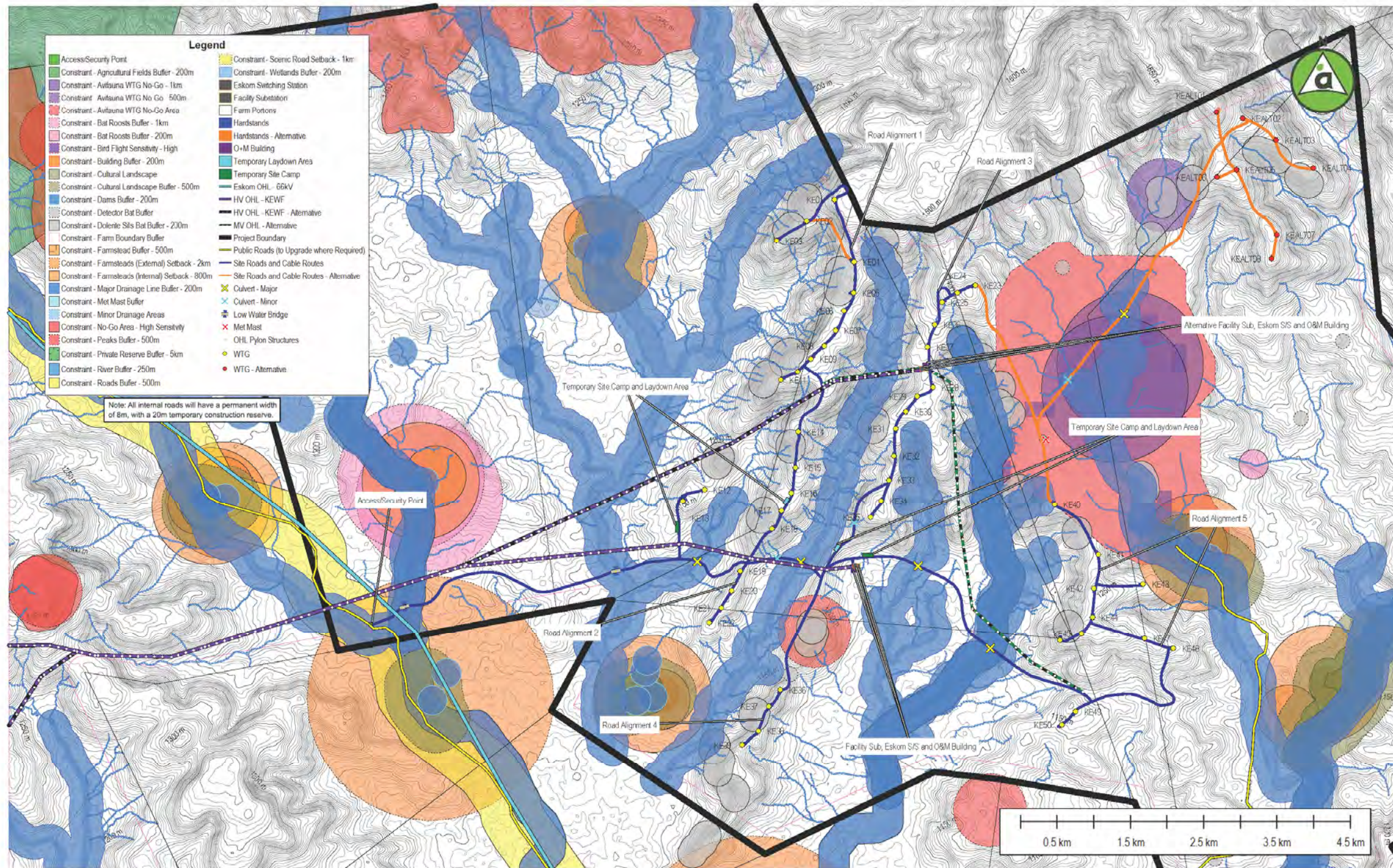


FIGURE 4.1 FINAL LAYOUT, INCORPORATING SPECIALISTS' FINDINGS.



Note: All internal roads will have a permanent width of 8m, with a 20m temporary construction reserve.

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REV	DATE	REVISION DETAILS	APPROVED	DRAWN	DESIGNED	PROJECT	SKETCH ONLY - NOT FOR CONSTRUCTION
0	6/10/2015	ISSUED FOR ENVIRONMENTAL REVIEW	NA	T. FICK	S. EGLINTON	KOMSBERG EAST WIND FARM	PROJECT No. 111391
1	11/03/2016	ISSUED FOR ENVIRONMENTAL REVIEW	NA				SCALE AS INDICATED
				NA		SITE DEVELOPMENT PLAN	SIZE A3
				NA			REV 1

FIGURE 7.1: LOCATION OF BAT DETECTORS.

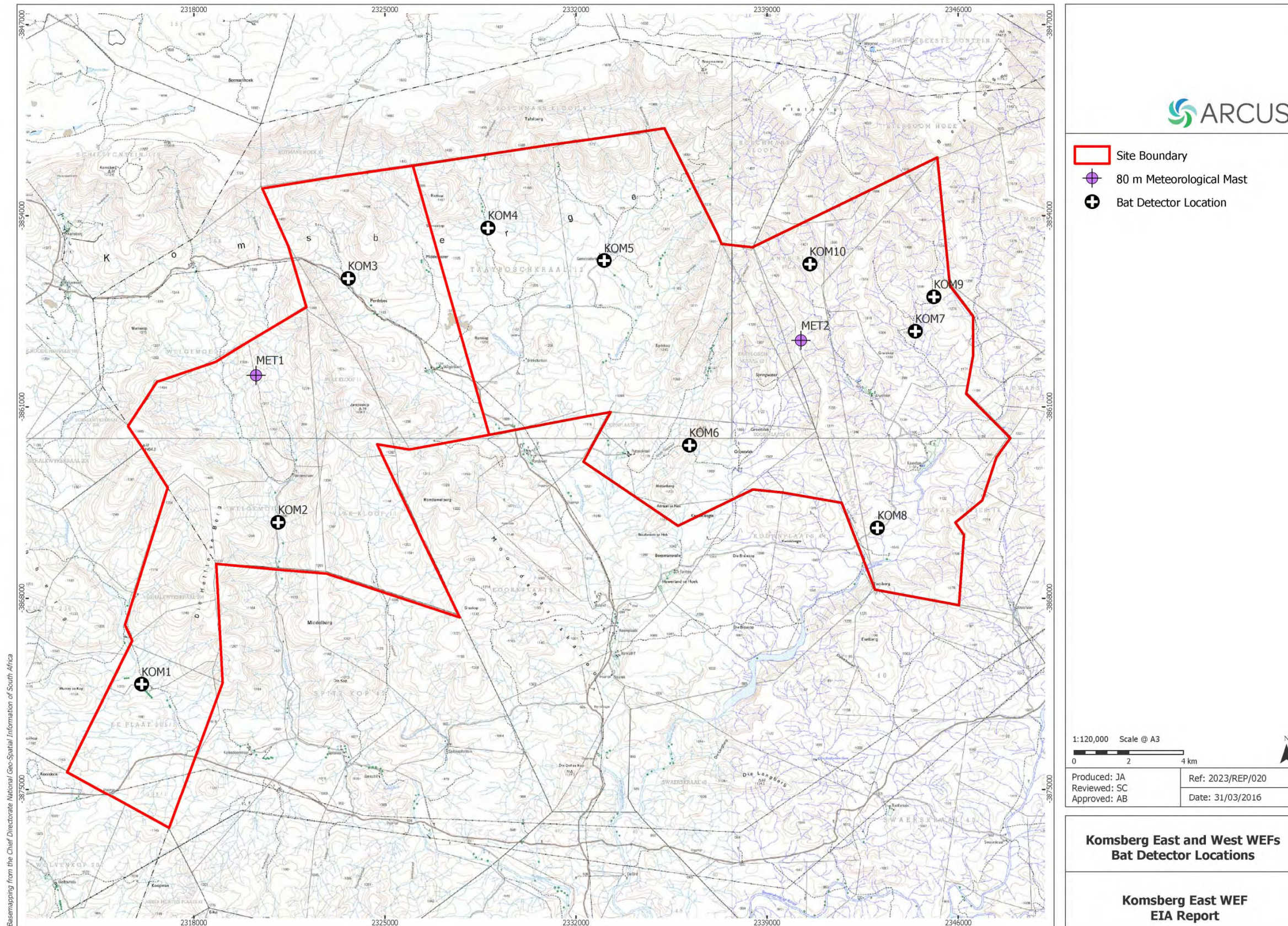


FIGURE 7.2: LOCATIONS USED TO MEASURE AMBIENT SOUND LEVELS.

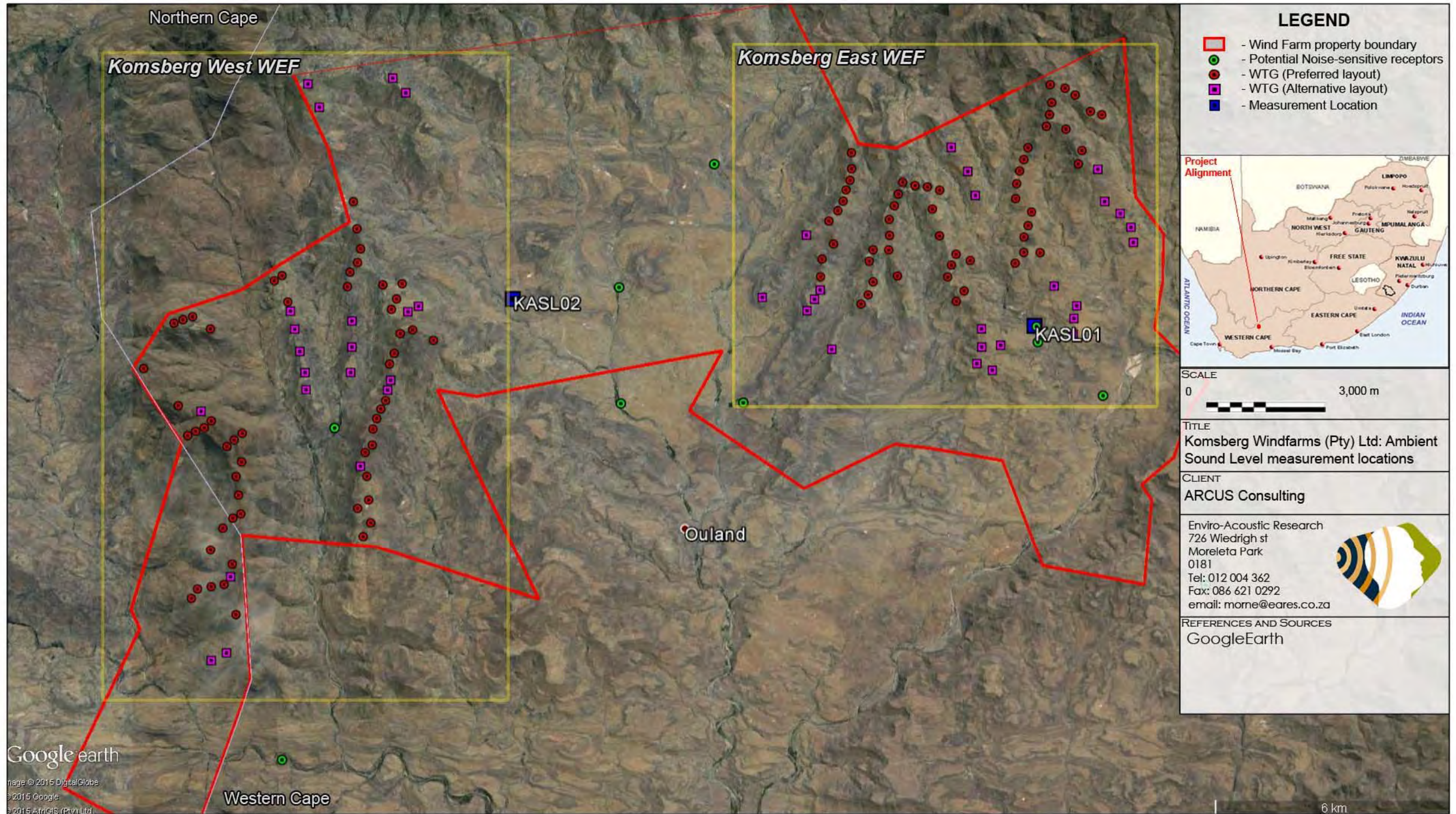


FIGURE 8.1: VEGETATION TYPES THAT OCCUR WITHIN THE DEVELOPMENT AREA.

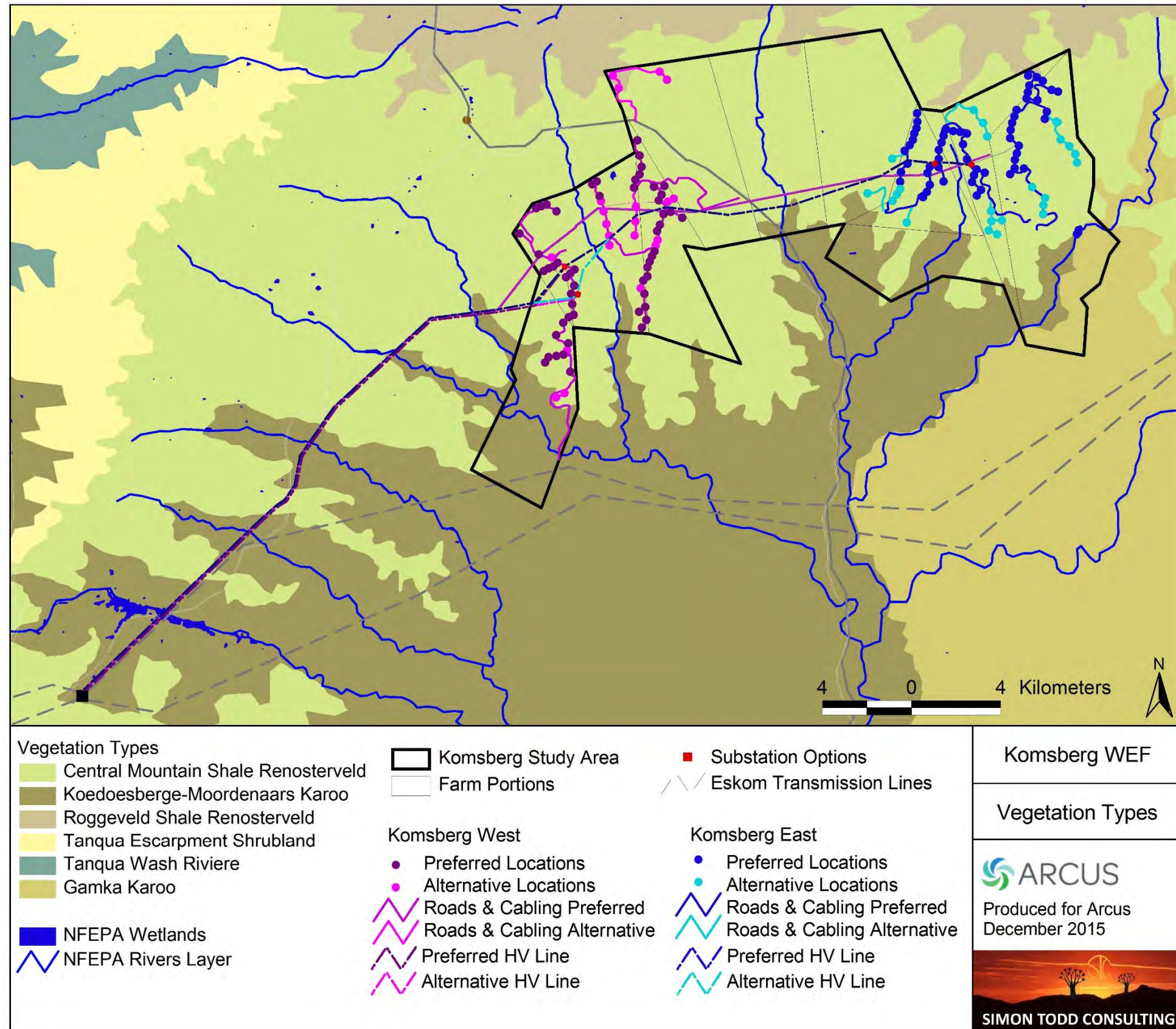


FIGURE 8.2: CRITICAL BIODIVERSITY AREAS (CBAS) ON SITE.

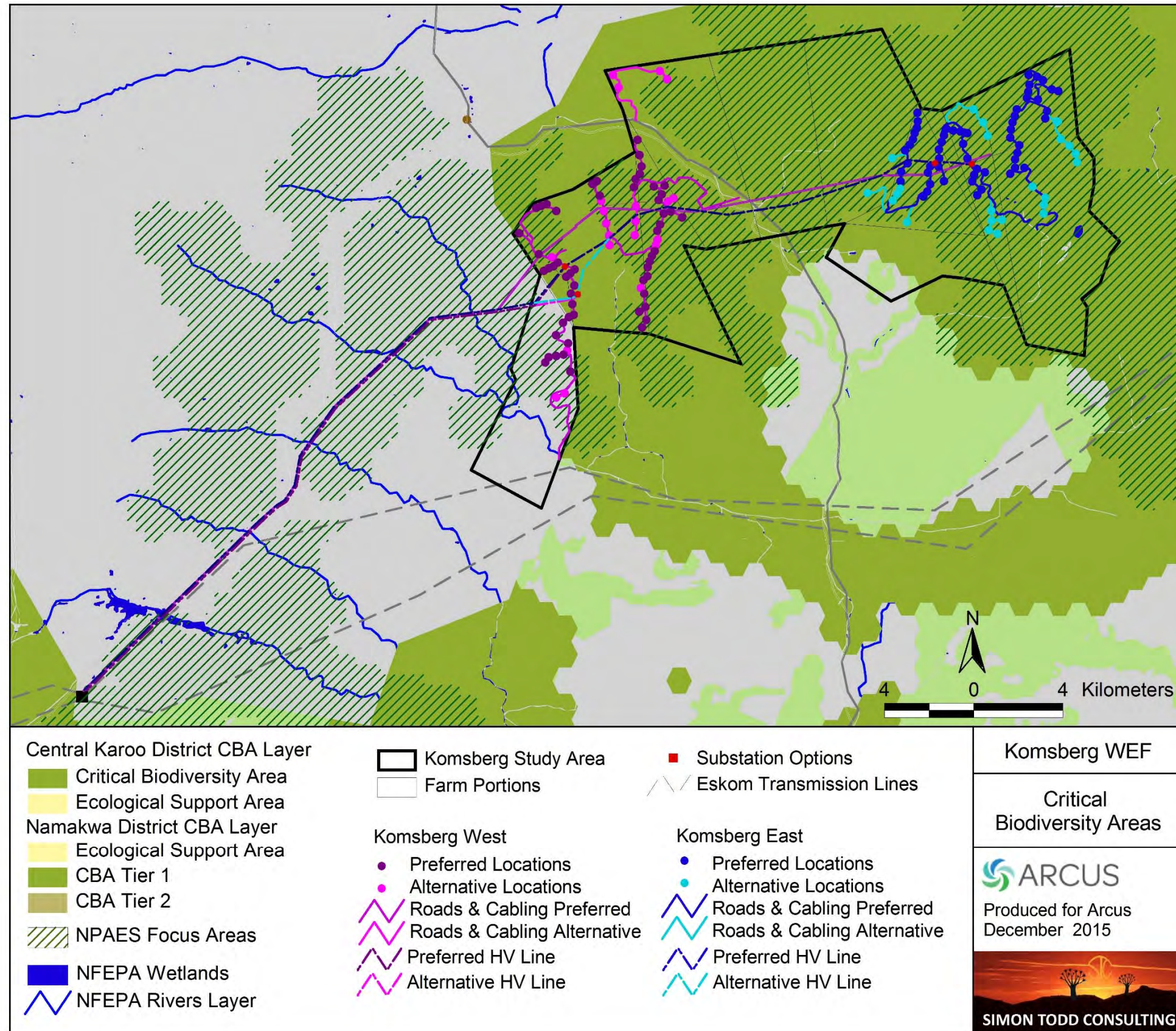


FIGURE 8.3: WEF AND CONTROL SITE LOCATIONS.

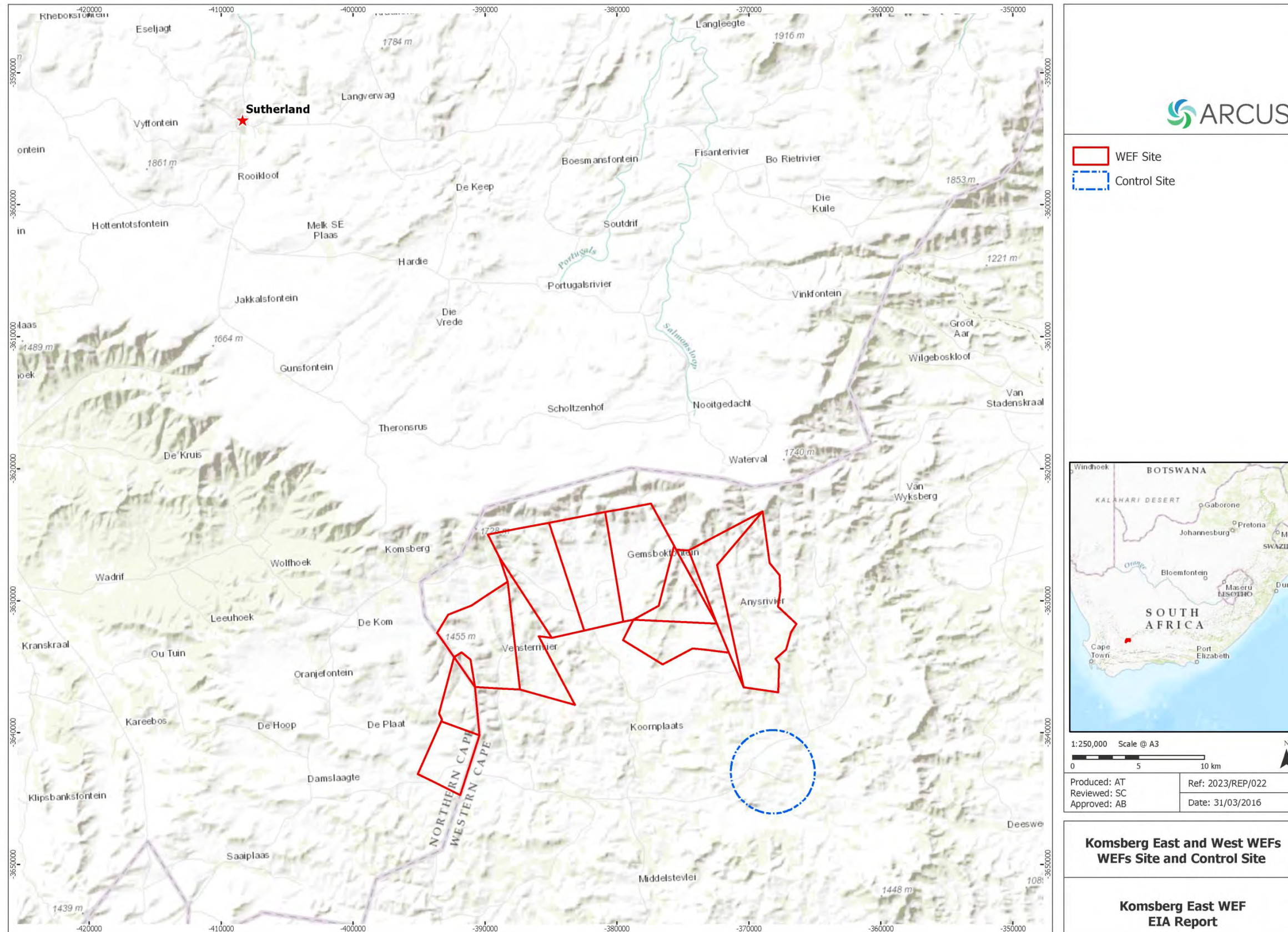


FIGURE 8.4: FOCAL SITE, DRIVEN AND WALKED TRANSECTS.

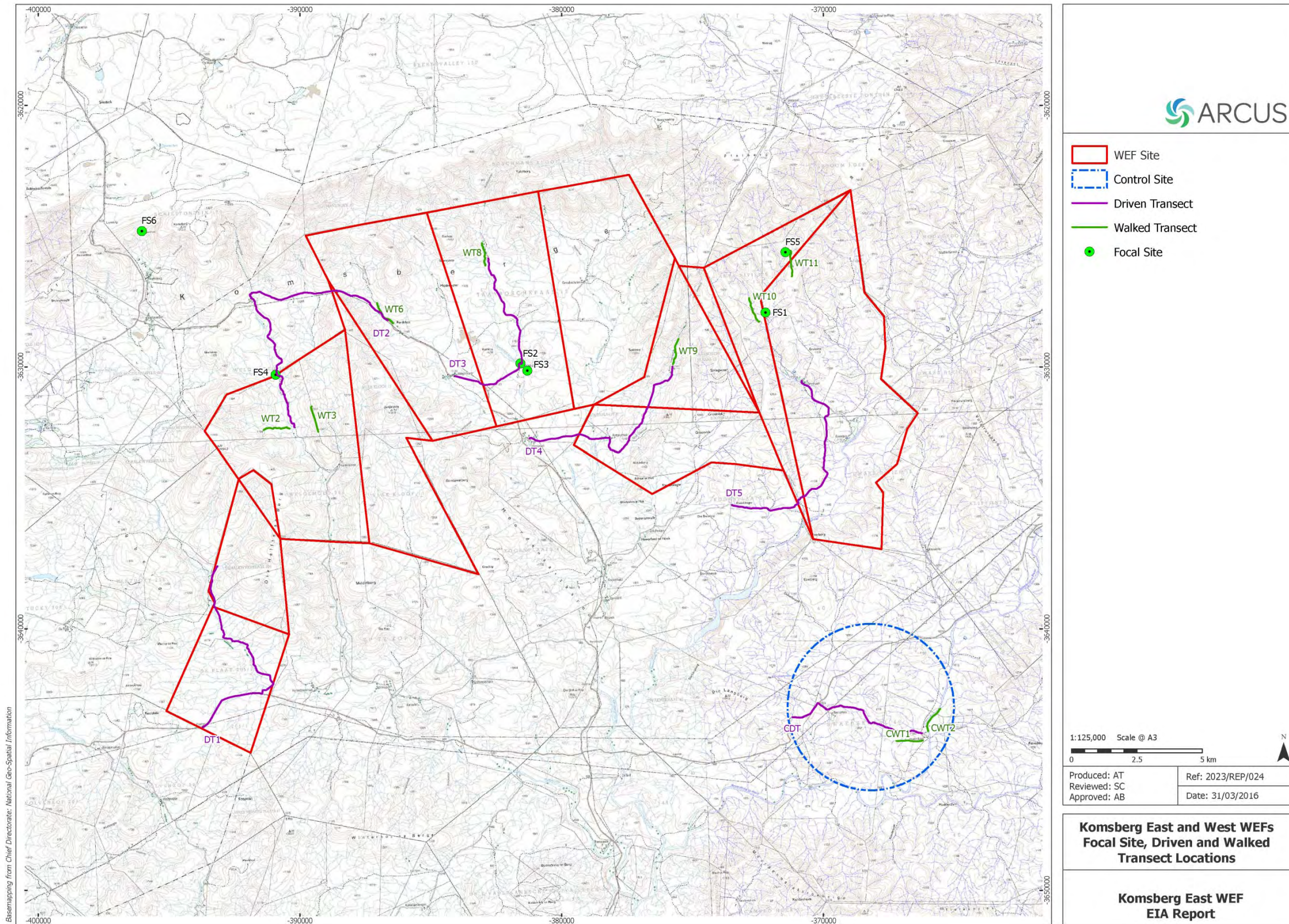


FIGURE 8.5: VANTAGE POINTS AND VIEWSHEDS.

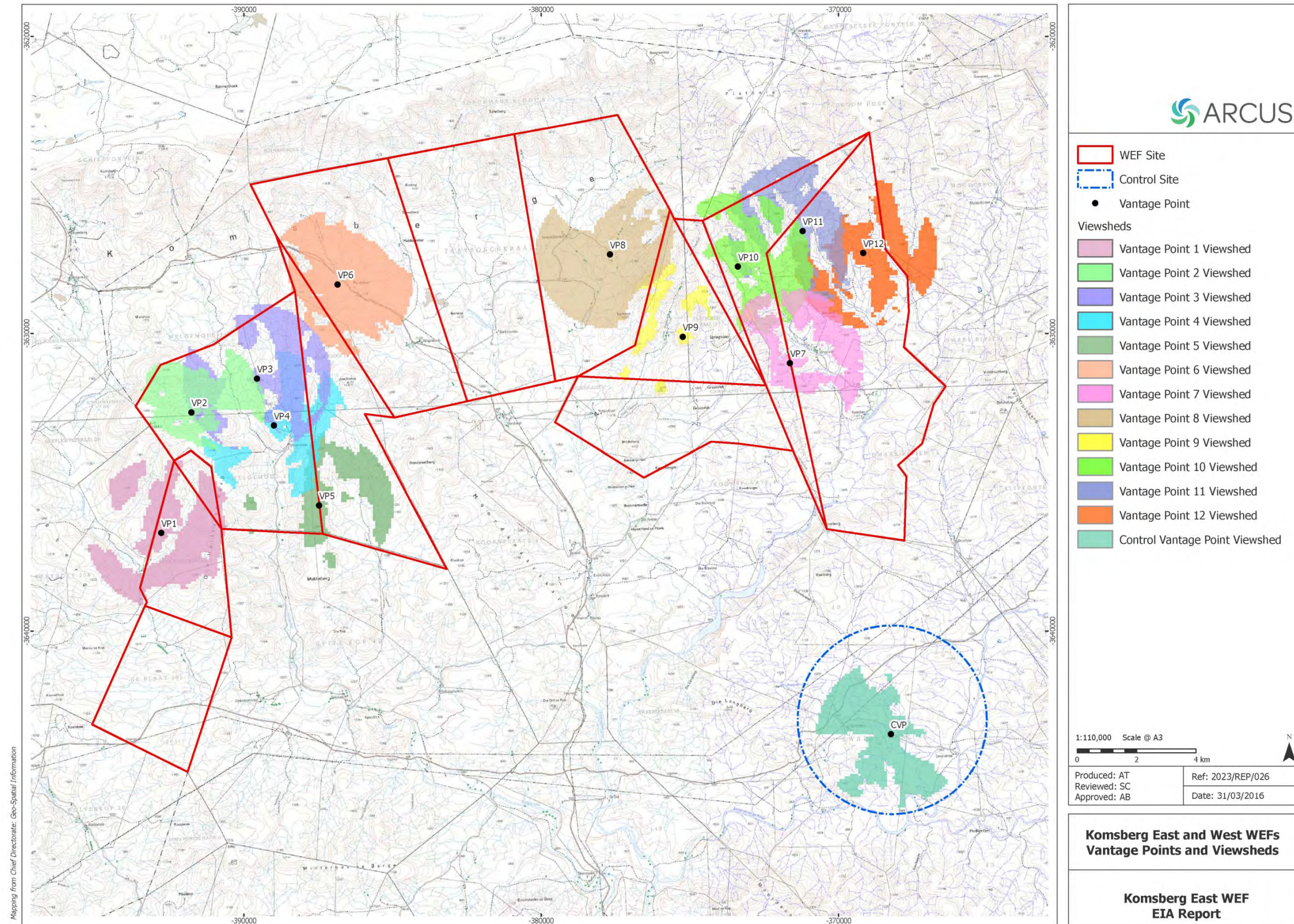


FIGURE 8.6: VEGETATION MAP AND SABAP GRID SQUARES.

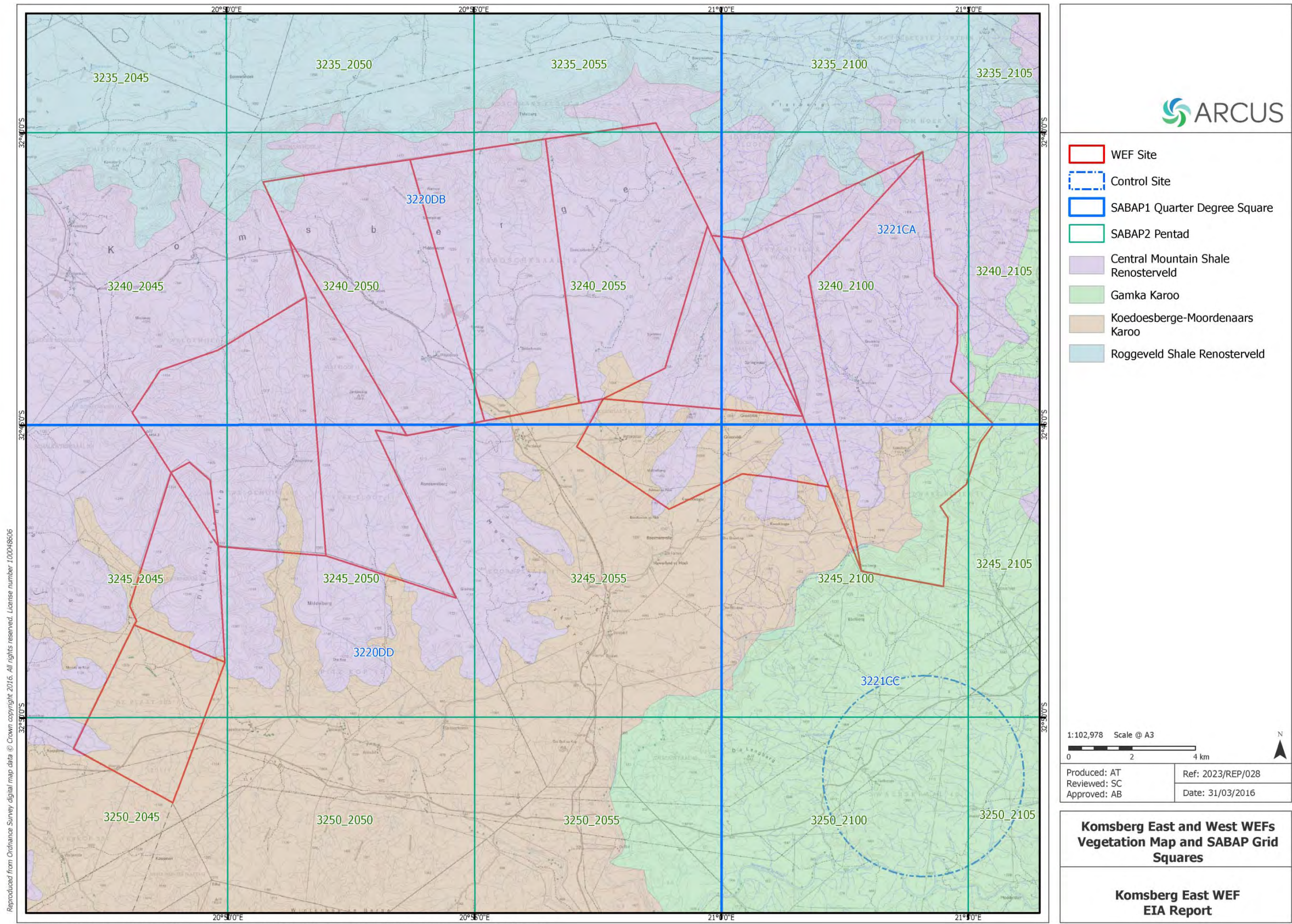


FIGURE 8.7: SITE LOCATION WITHIN THE NAMA KAROO ECOREGION LOCATED WITHIN THE GOURITZ WATER MANAGEMENT AREA (FINAL LAYOUT).

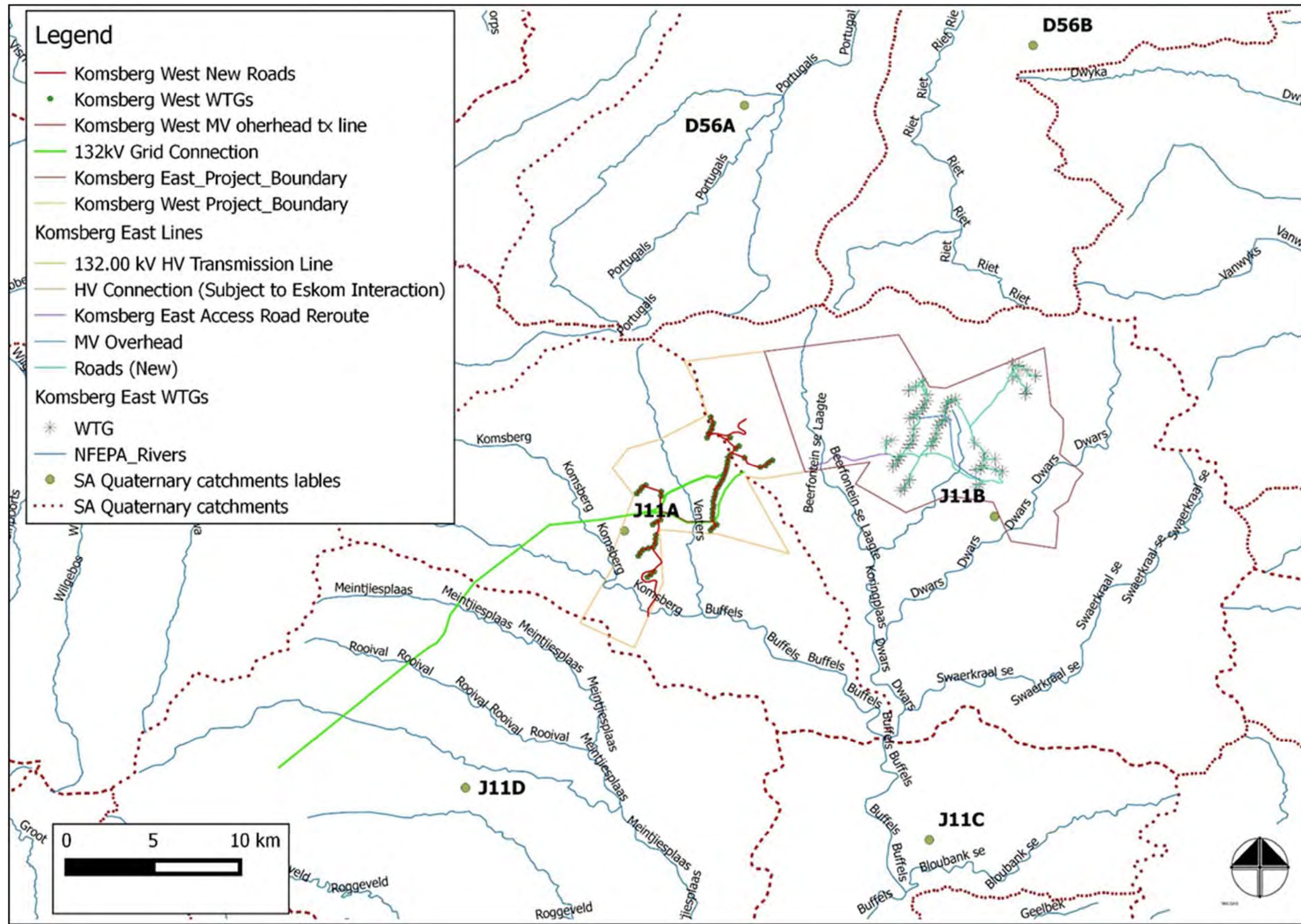


FIGURE 8.8: NATURAL AND ARTIFICIAL WETLANDS (ACCORDING TO THE NATION WETLAND INVENTORY) OCCURRING WITHIN THE SITE BOUNDARY. NONE LOCATED WITHIN THE SITE CONFIRMED (FINAL LAYOUT).

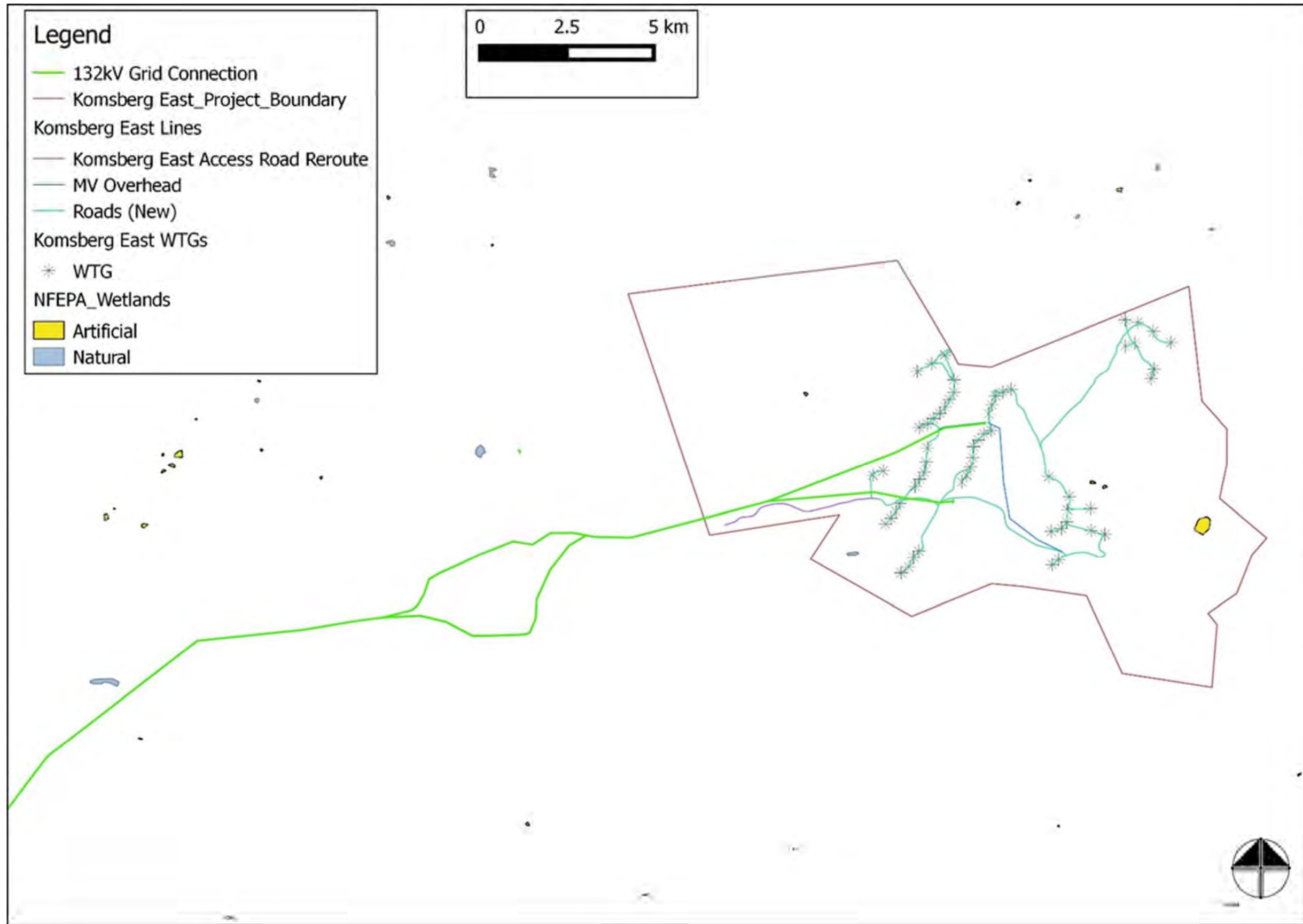


FIGURE 8.9a: WATERCOURSES CROSSED BY THE PROPOSED ROAD LAYOUT (PREFERRED AND ALTERNATIVE LAYOUTS).

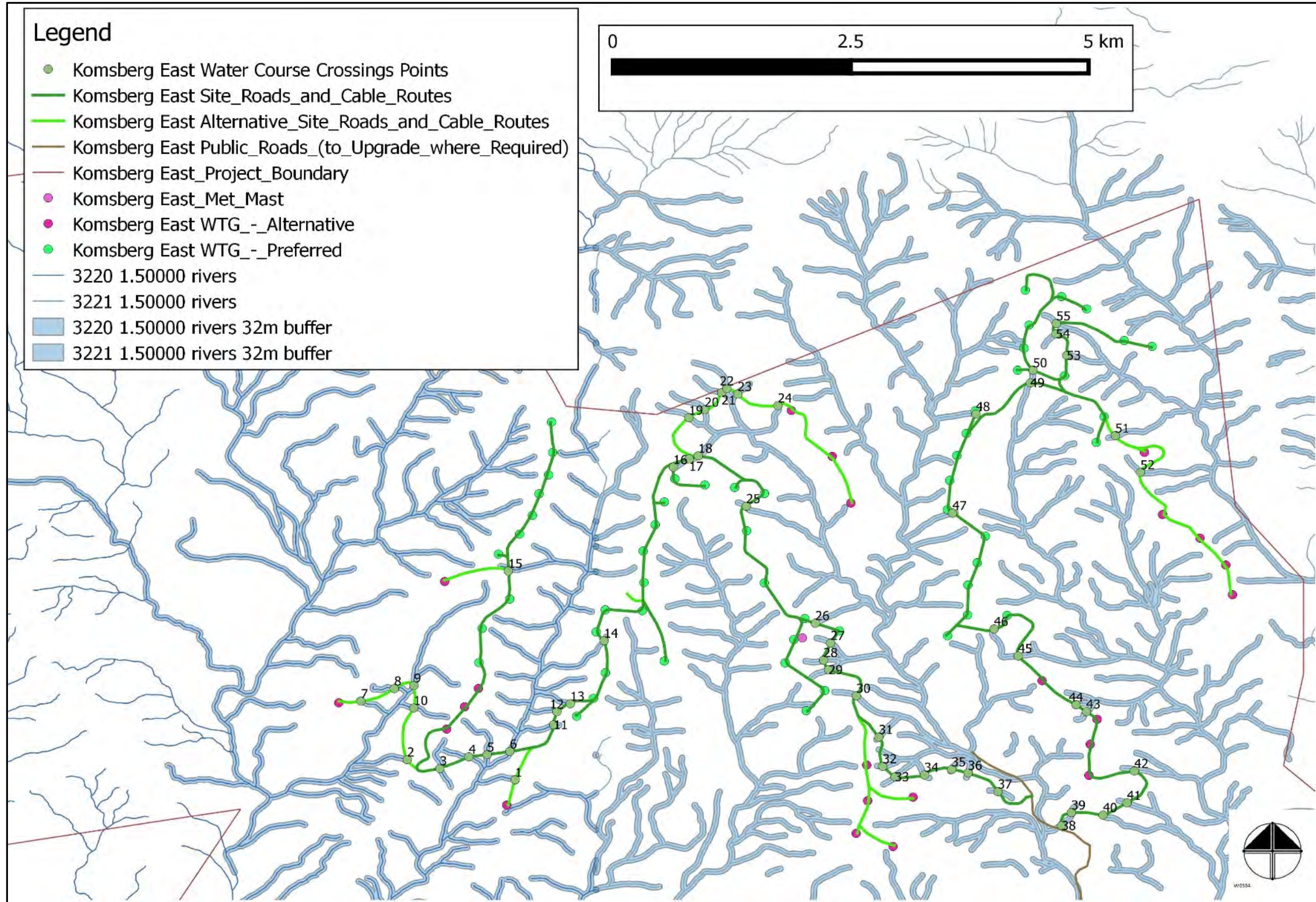


FIGURE 8.9b: FINAL LAYOUT - THE VARIOUS ACTIVITIES IN RELATION TO THE WATER COURSES (INCLUSIVE OF 32M BUFFER) FOR THE ROAD LAYOUT (LIGHT AND DARK GREEN LINES), AND THE 55 WATER COURSE CROSSINGS.

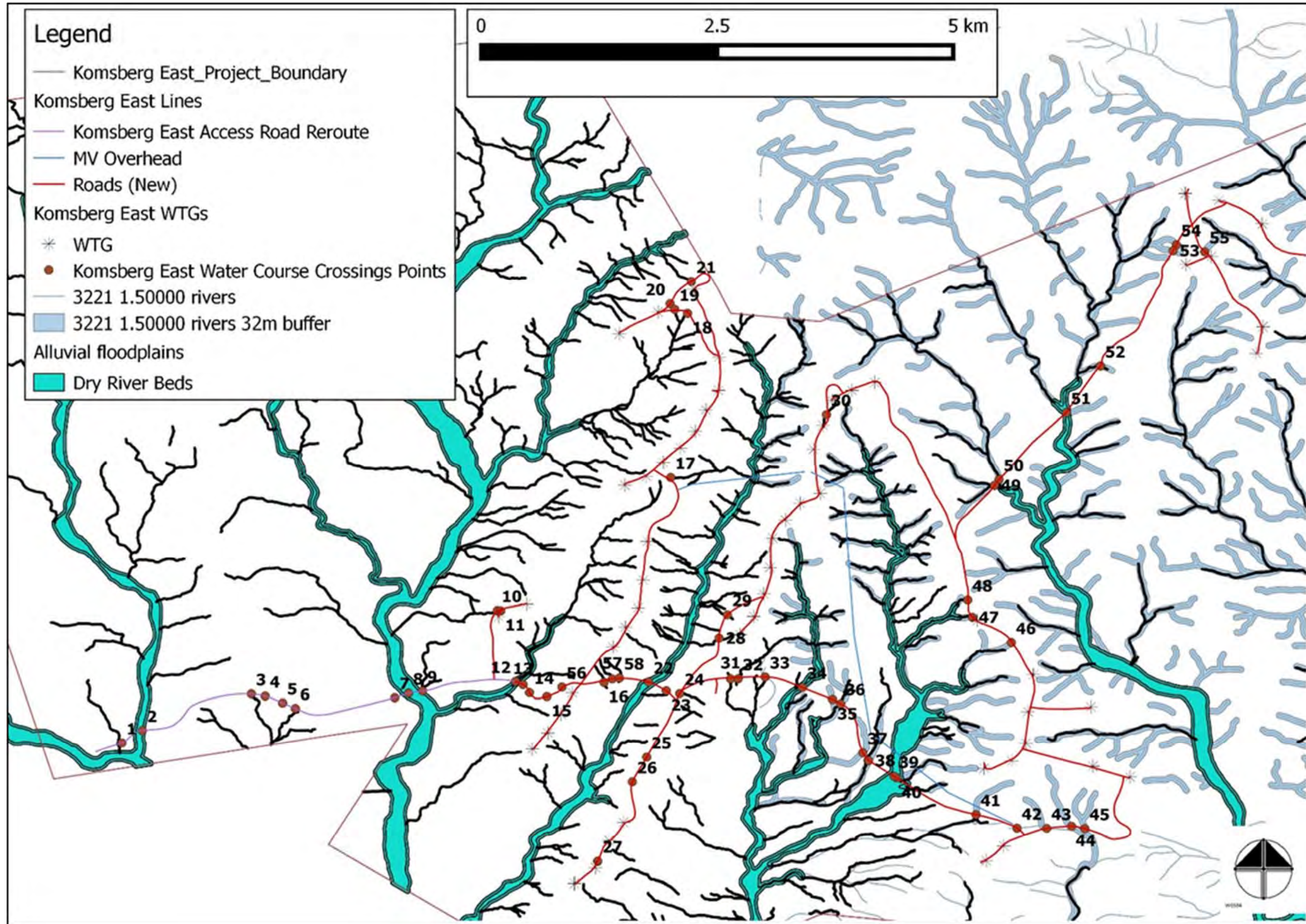


FIGURE 8.10: ARCHAEOLOGICAL OCCURRENCES RECORDED ON THE PROPOSED KOMSBERG EAST SITE.



FIGURE 8.11: PALAEOANTHROPOLOGICAL OCCURRENCES RECORDED ON THE PROPOSED KOMSBERG EAST SITE.

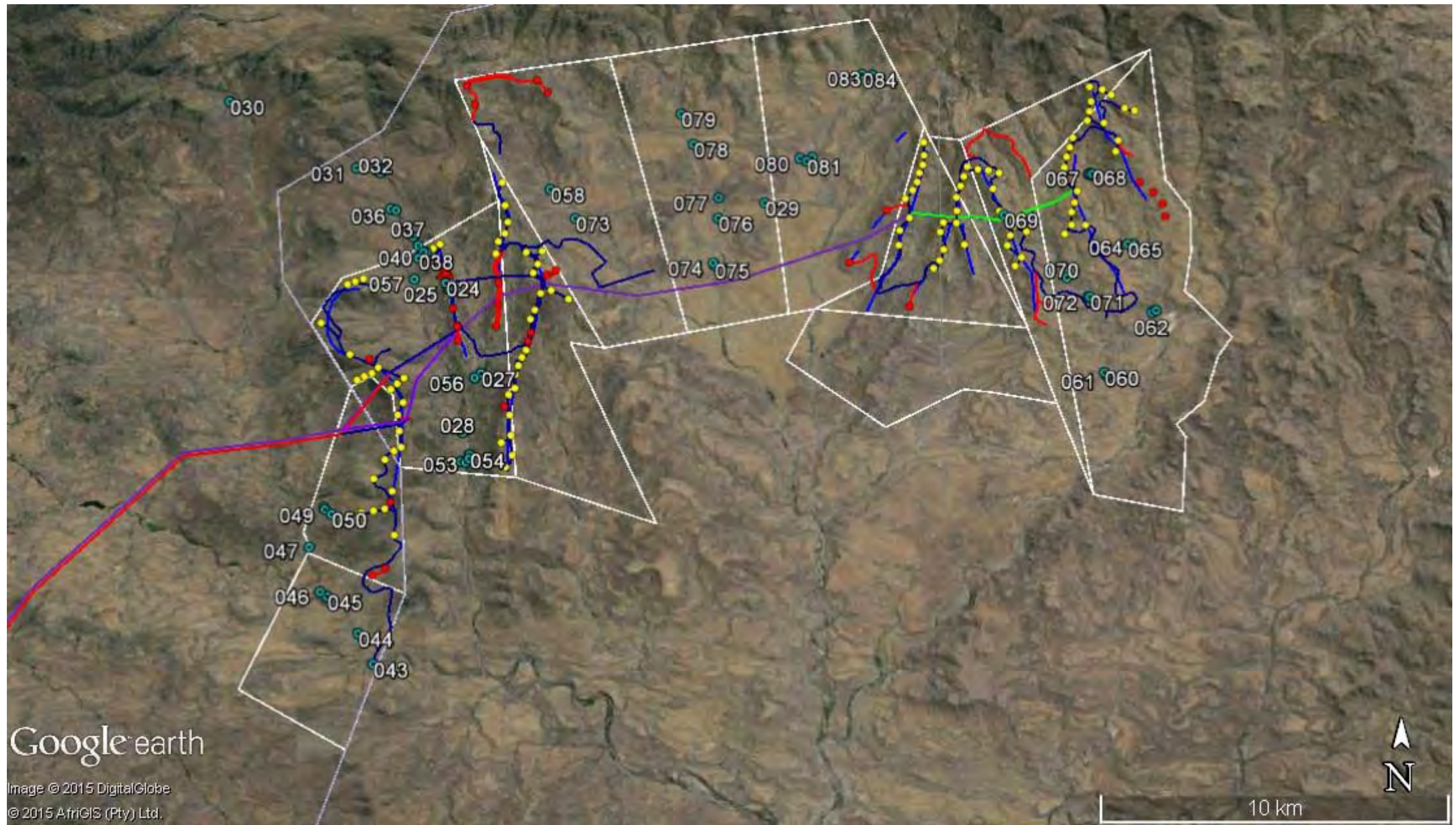


FIGURE 8.12: LOCATION OF NOISE-SENSITIVE DEVELOPMENTS ON SITE.

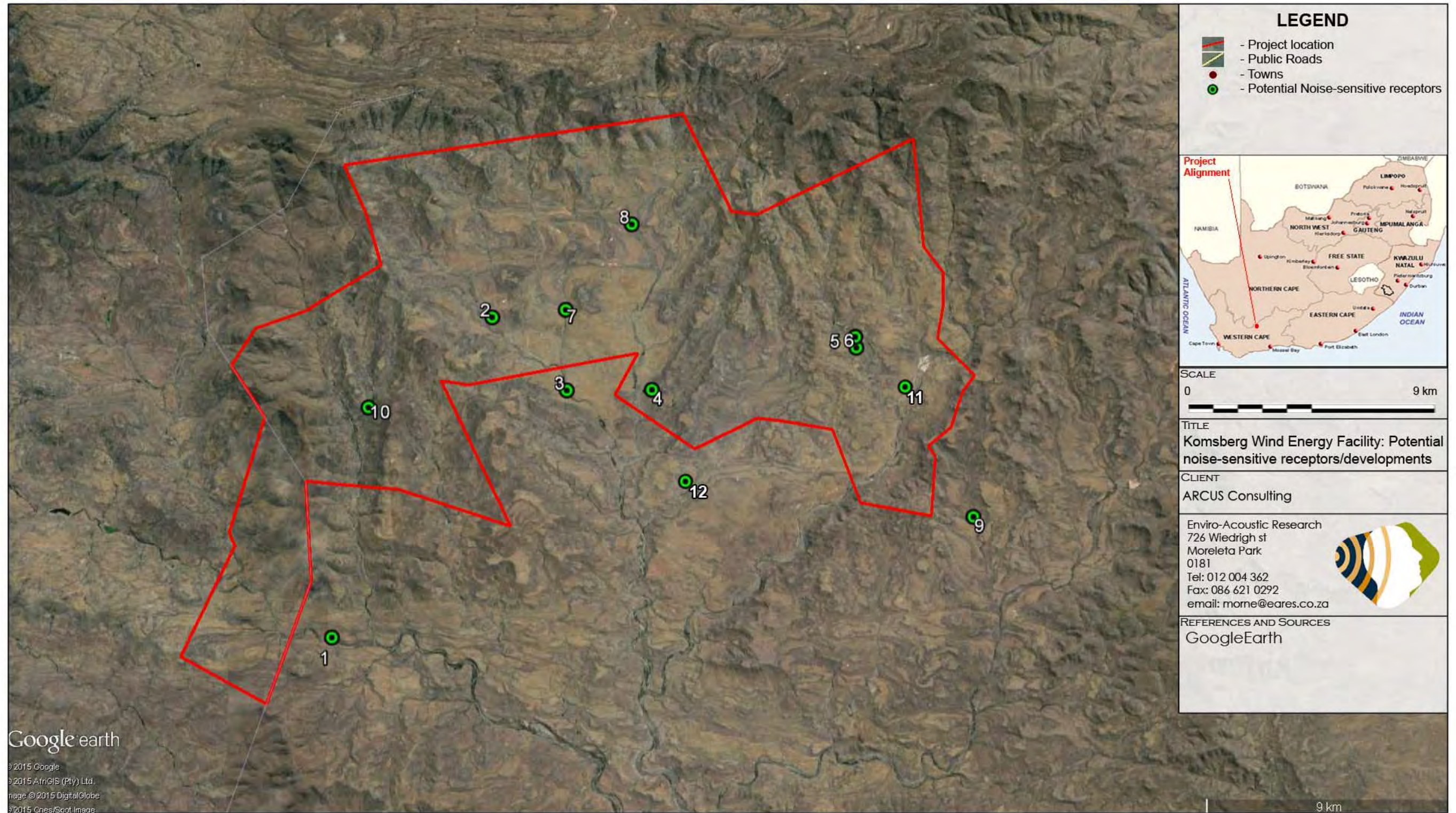


FIGURE 8.13: VISUAL INFORMANTS MAP (PREFERRED AND ALTERNATIVE LAYOUTS).

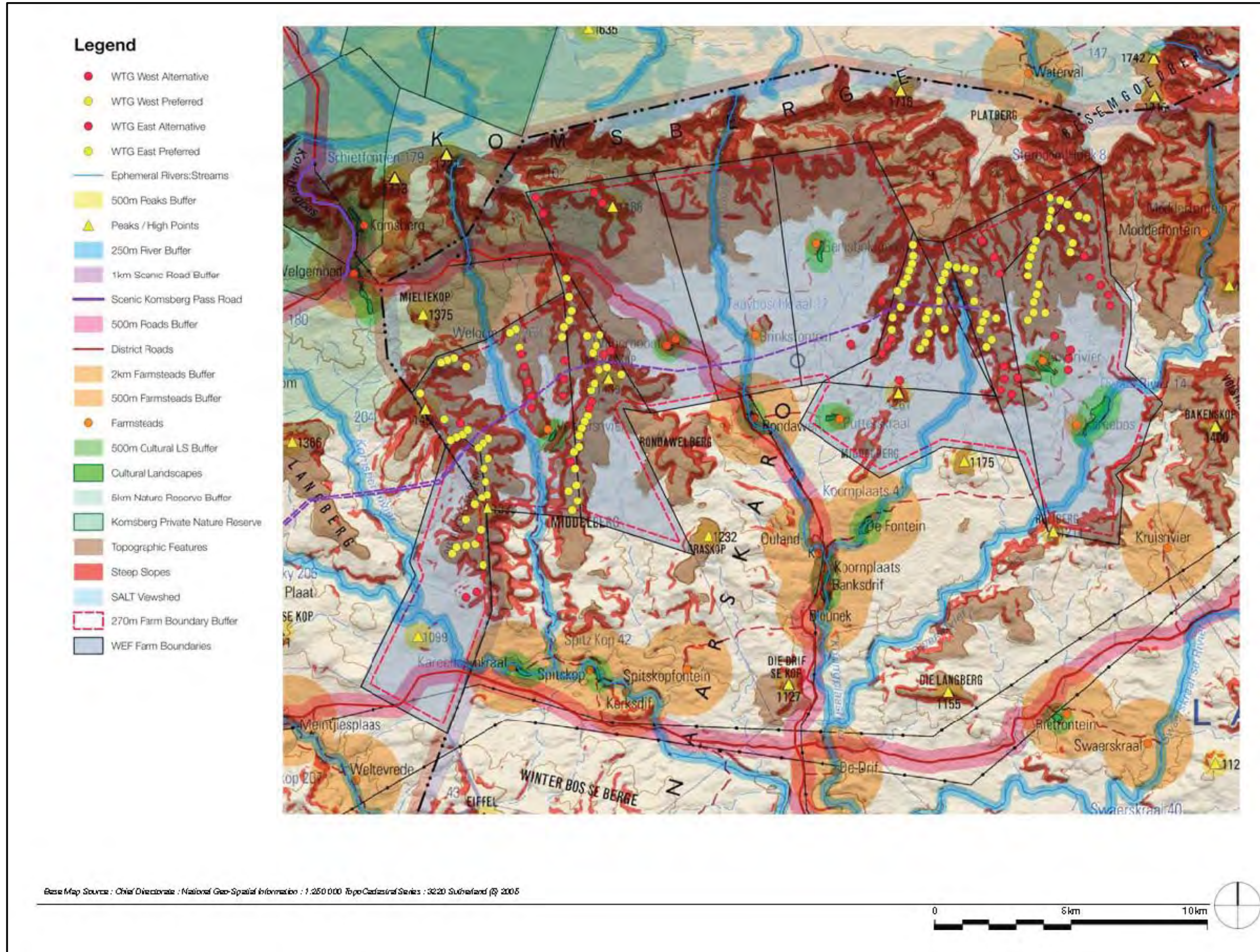


FIGURE 9.1a: ECOLOGICAL SENSITIVITY MAP (PREFERRED AND ALTERNATIVE LAYOUTS).

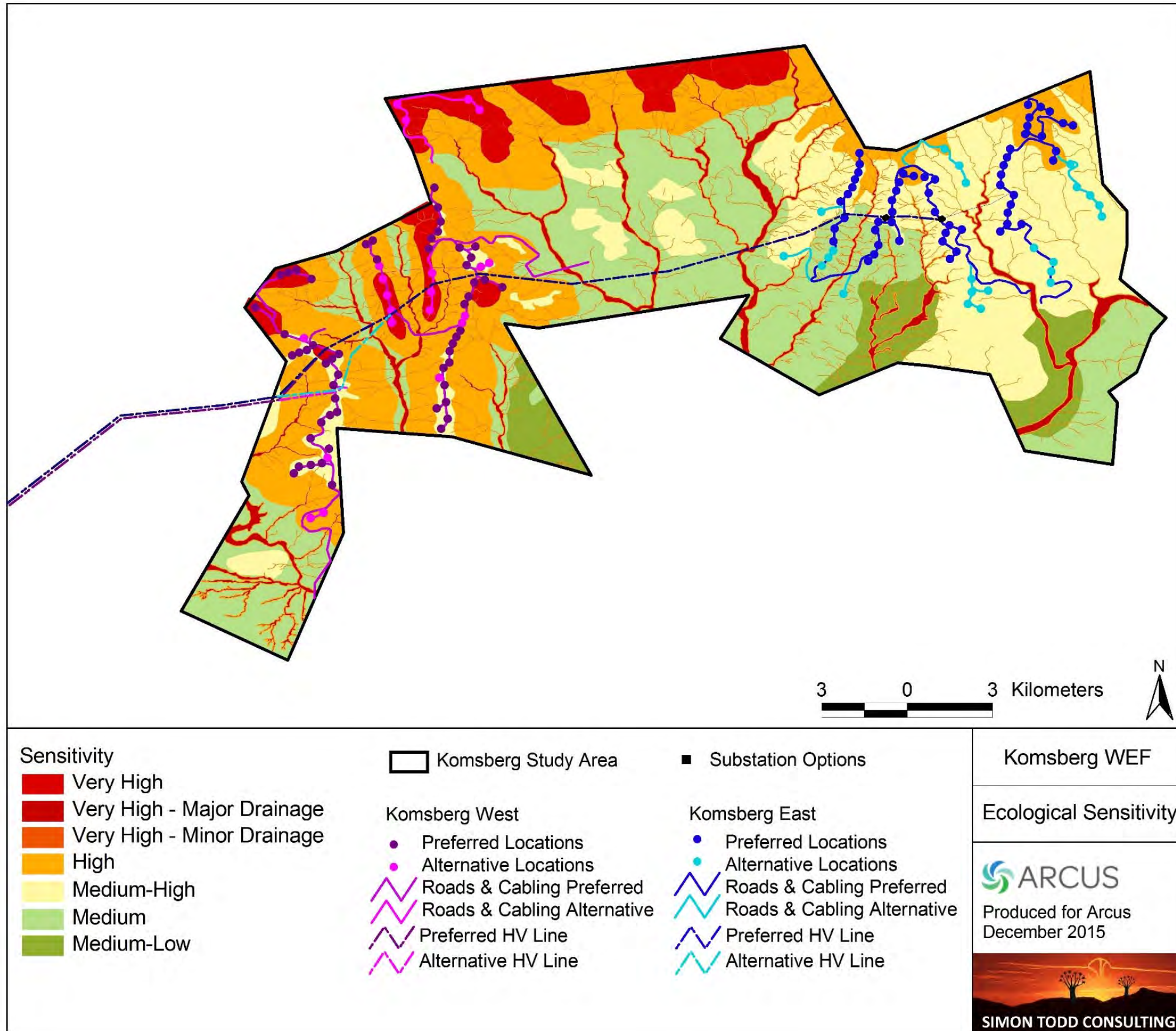


FIGURE 9.1b: ECOLOGICAL SENSITIVITY MAP (FINAL LAYOUT).

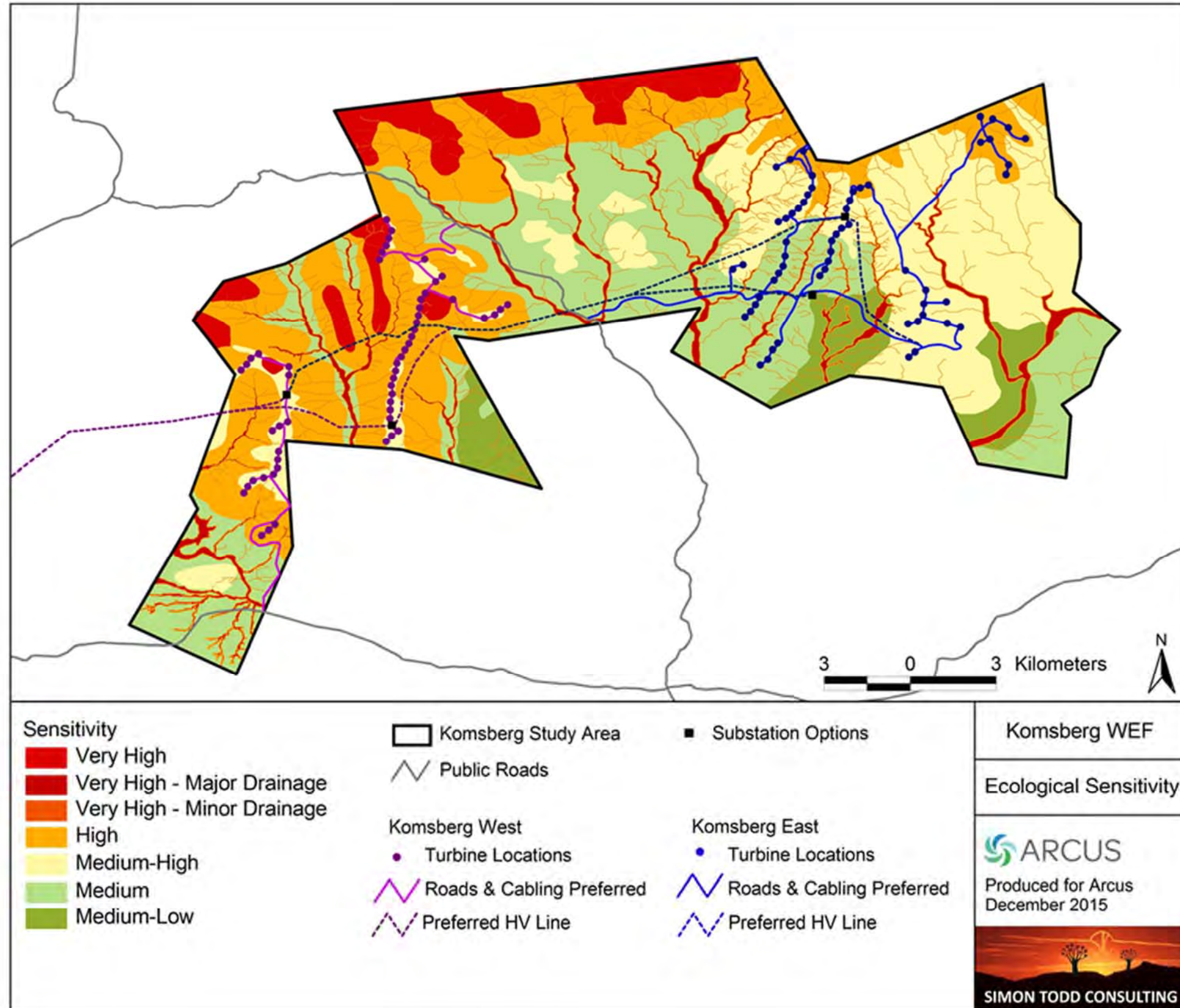


FIGURE 9.2: KOMSBERG EAST BAT CONSTRAINTS MAP.

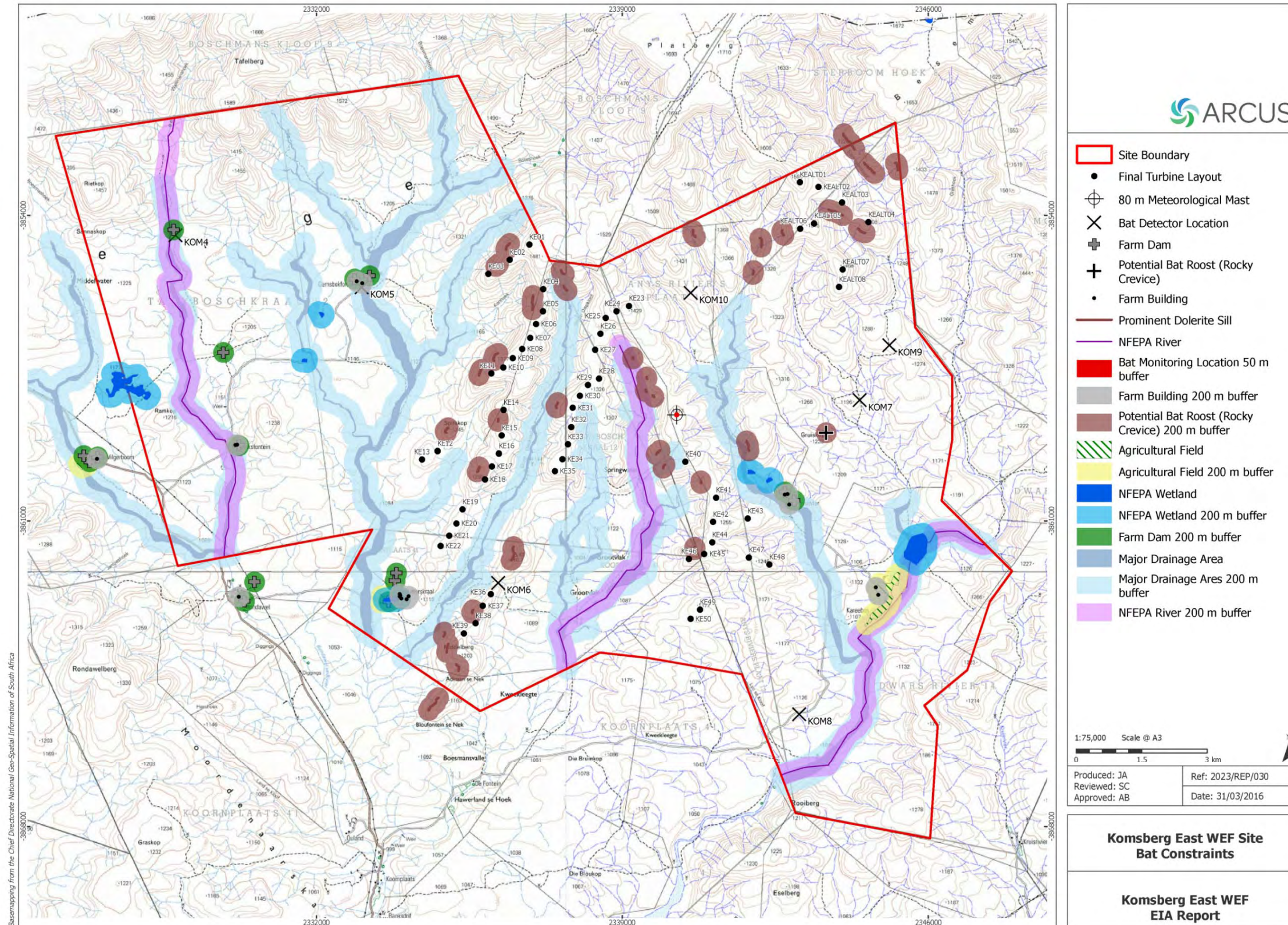


FIGURE 9.3: RAPTOR NEST AND ROOST LOCATIONS.

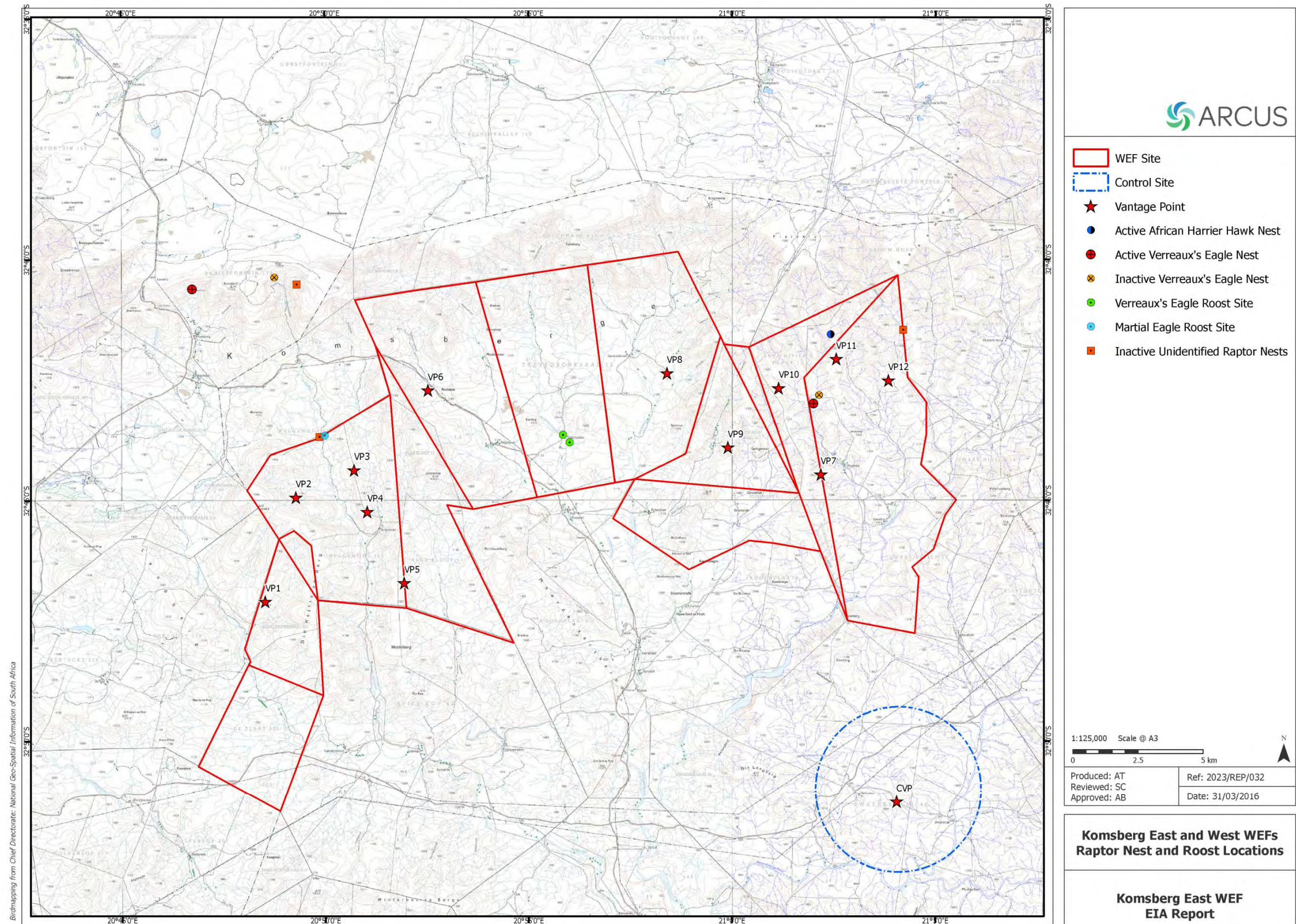


FIGURE 9.4: AVIFAUNAL SENSITIVITIES AND NO GO AREAS.

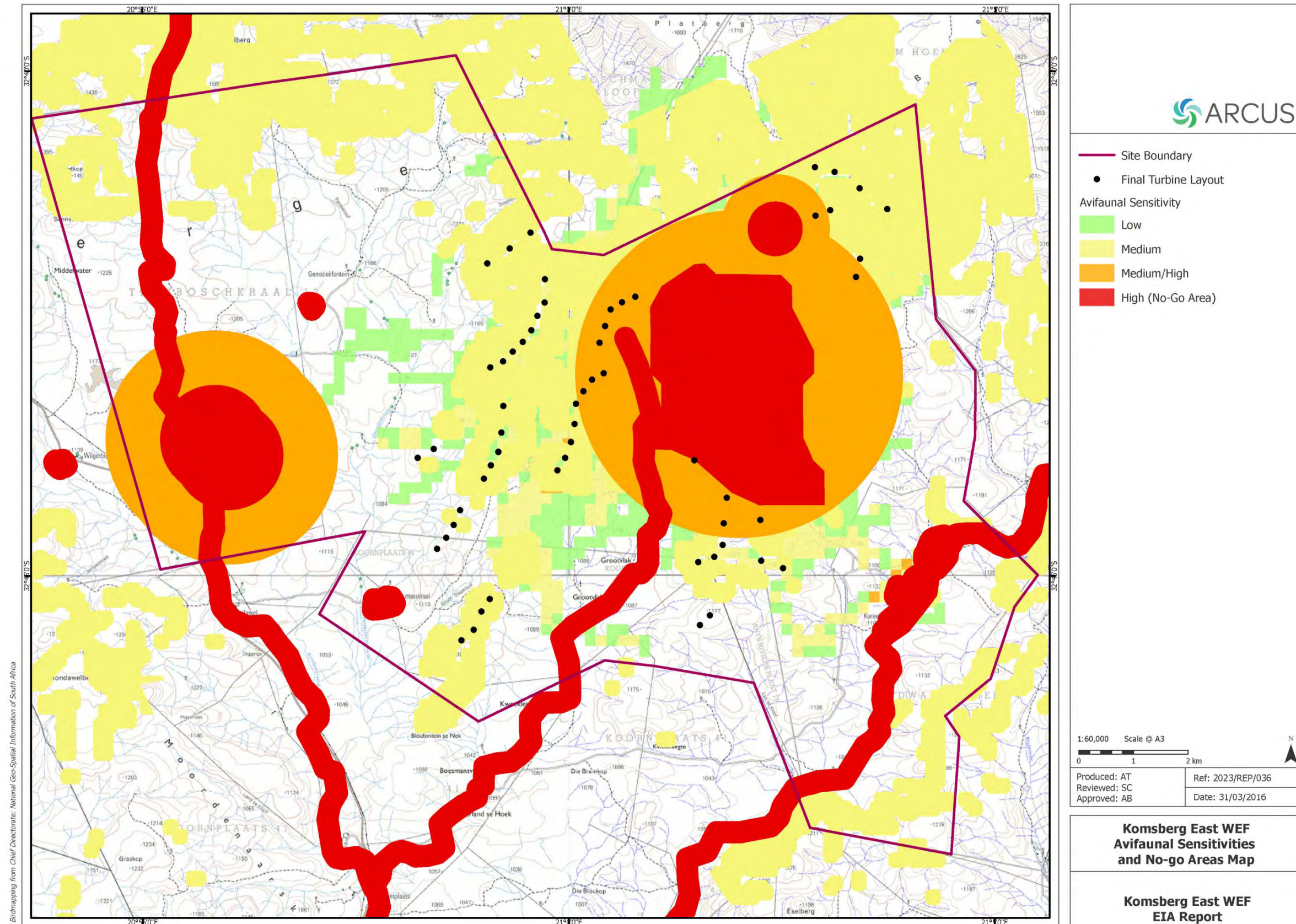


FIGURE 9.5: LOCATION OF PROPOSED WTGS IN RELATION TO NOISE SENSITIVE RECEPTORS (ALTERNATIVE LAYOUT).

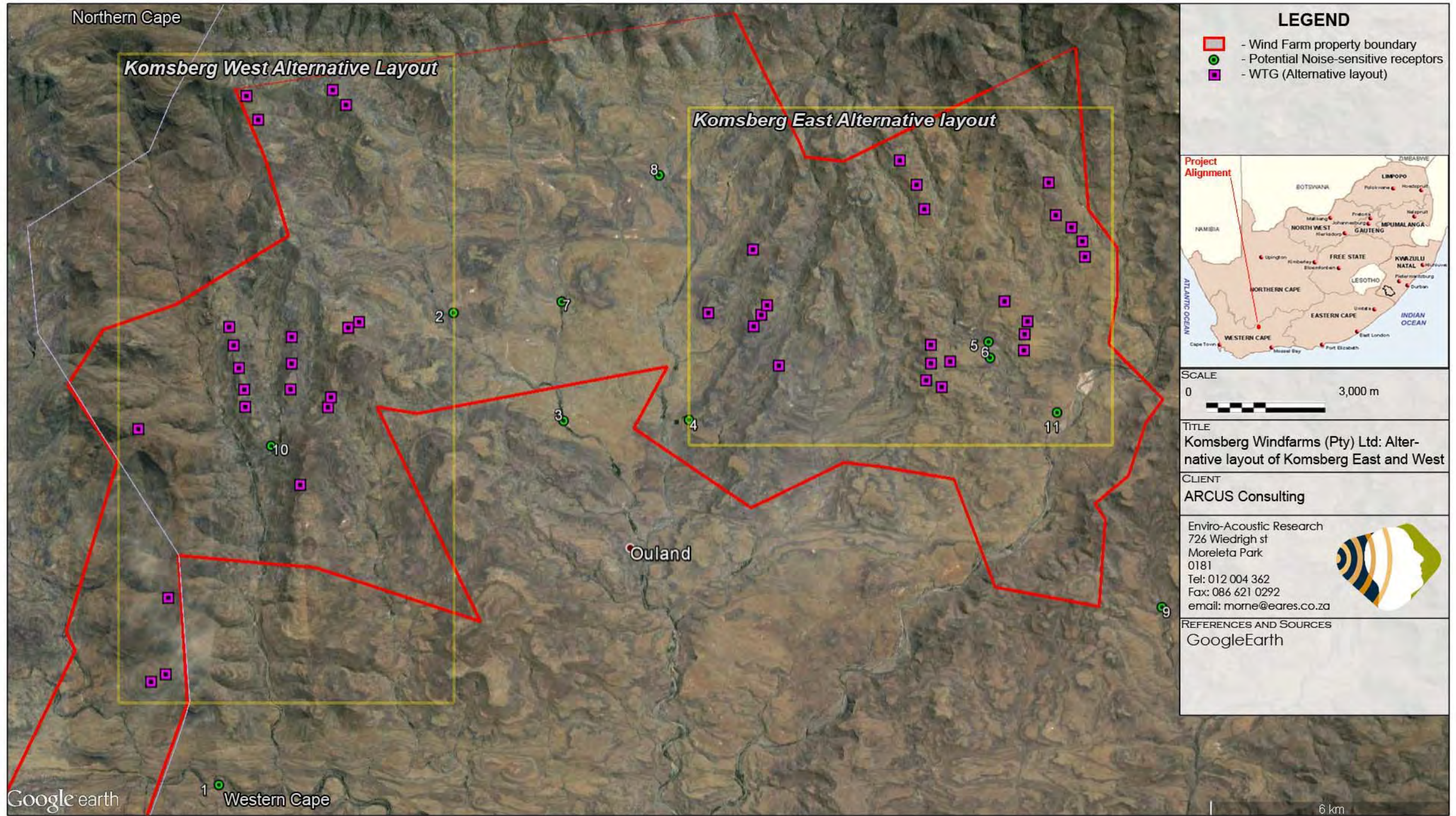


FIGURE 9.6: LOCATION OF PROPOSED WTGS IN RELATION TO NOISE SENSITIVE RECEPTORS (PREFERRED LAYOUT).

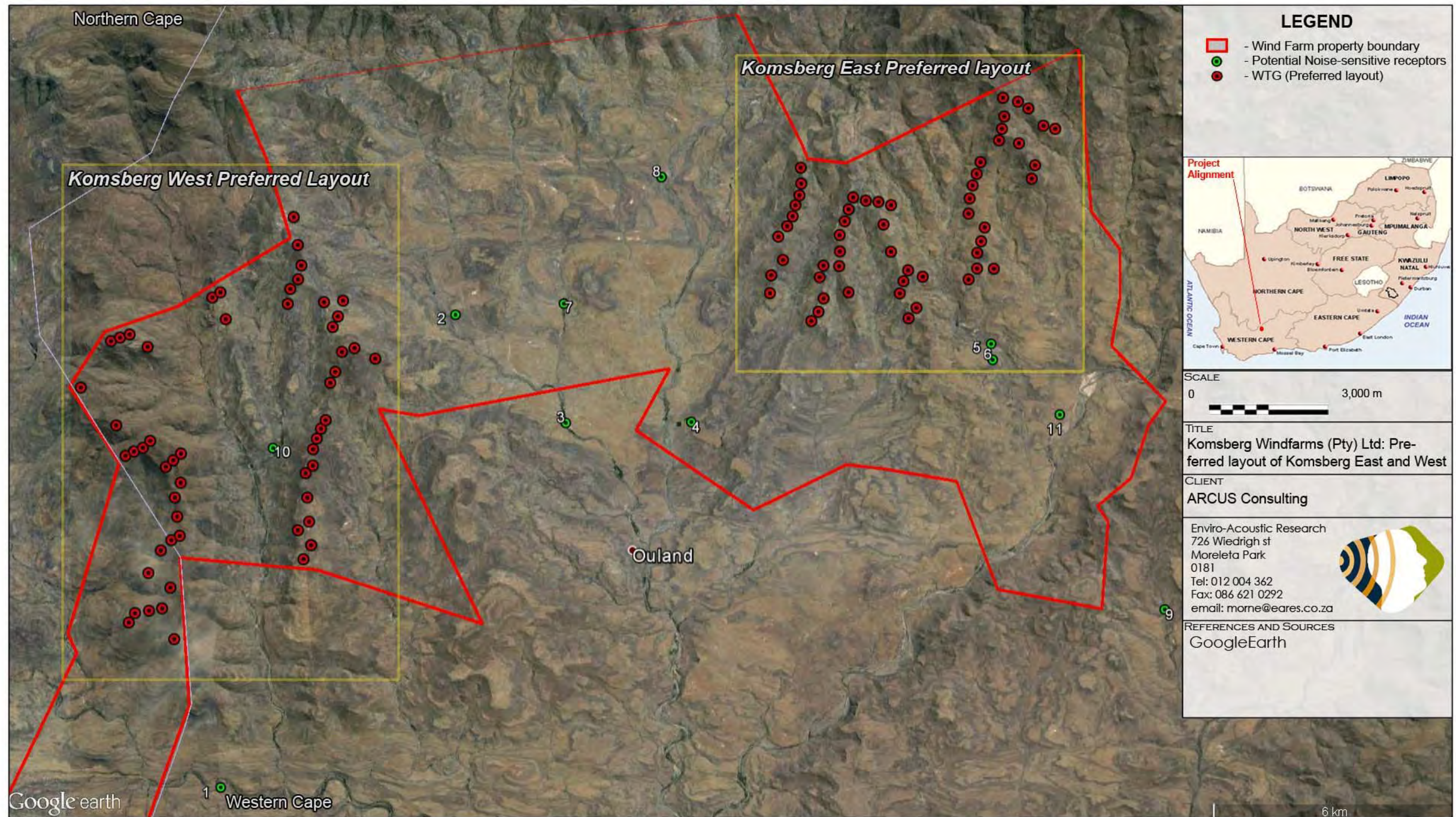


FIGURE 9.7: PROJECTED CONCEPTUAL NIGHT-TIME NOISE RATING LEVELS DURING OPERATION – ALTERNATIVE LAYOUT (VESTAS WTG).

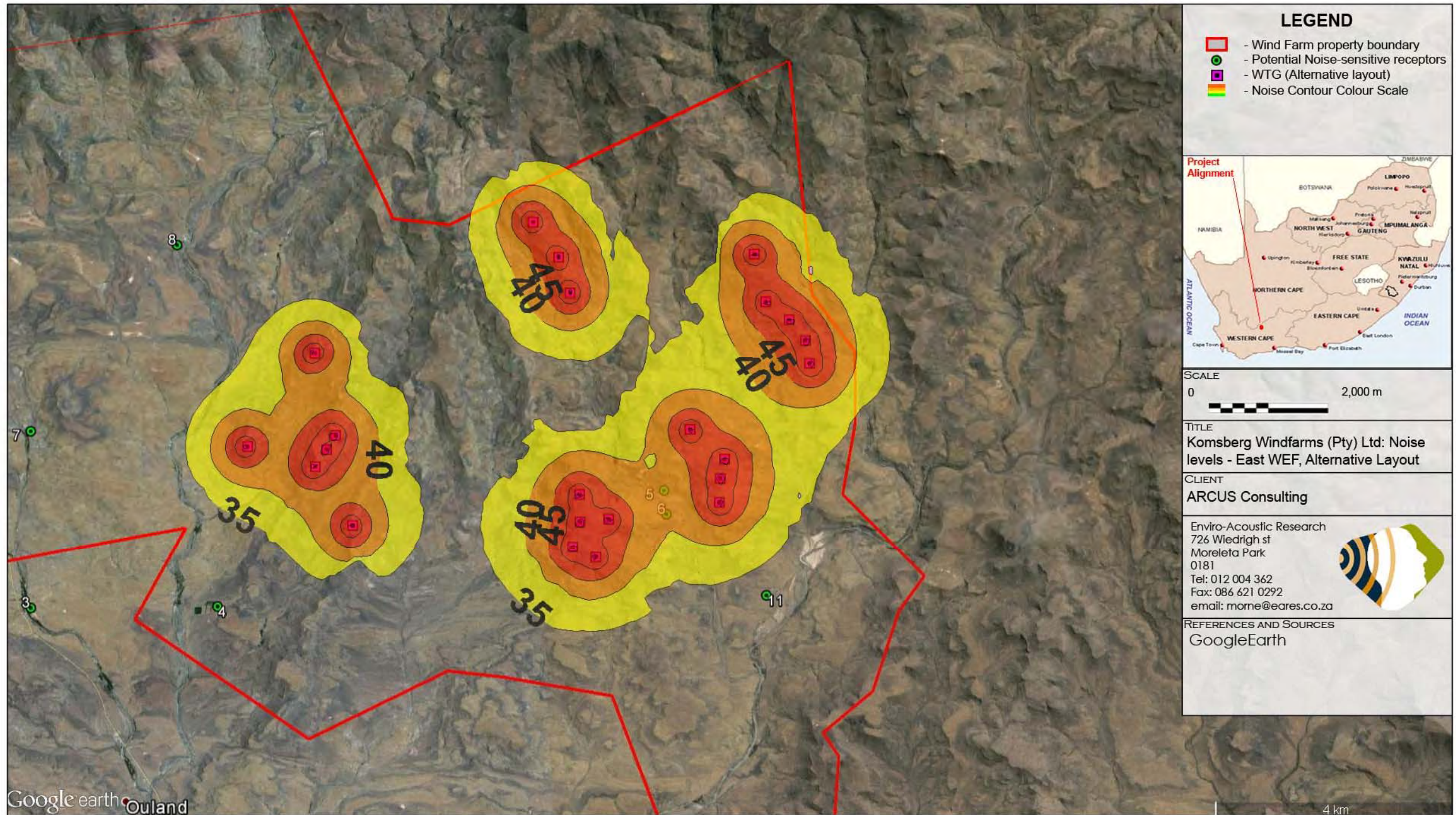


FIGURE 9.8: PROJECTED CONCEPTUAL NIGHT-TIME NOISE RATING LEVELS DURING OPERATION – PREFERRED LAYOUT (VESTAS WTG).

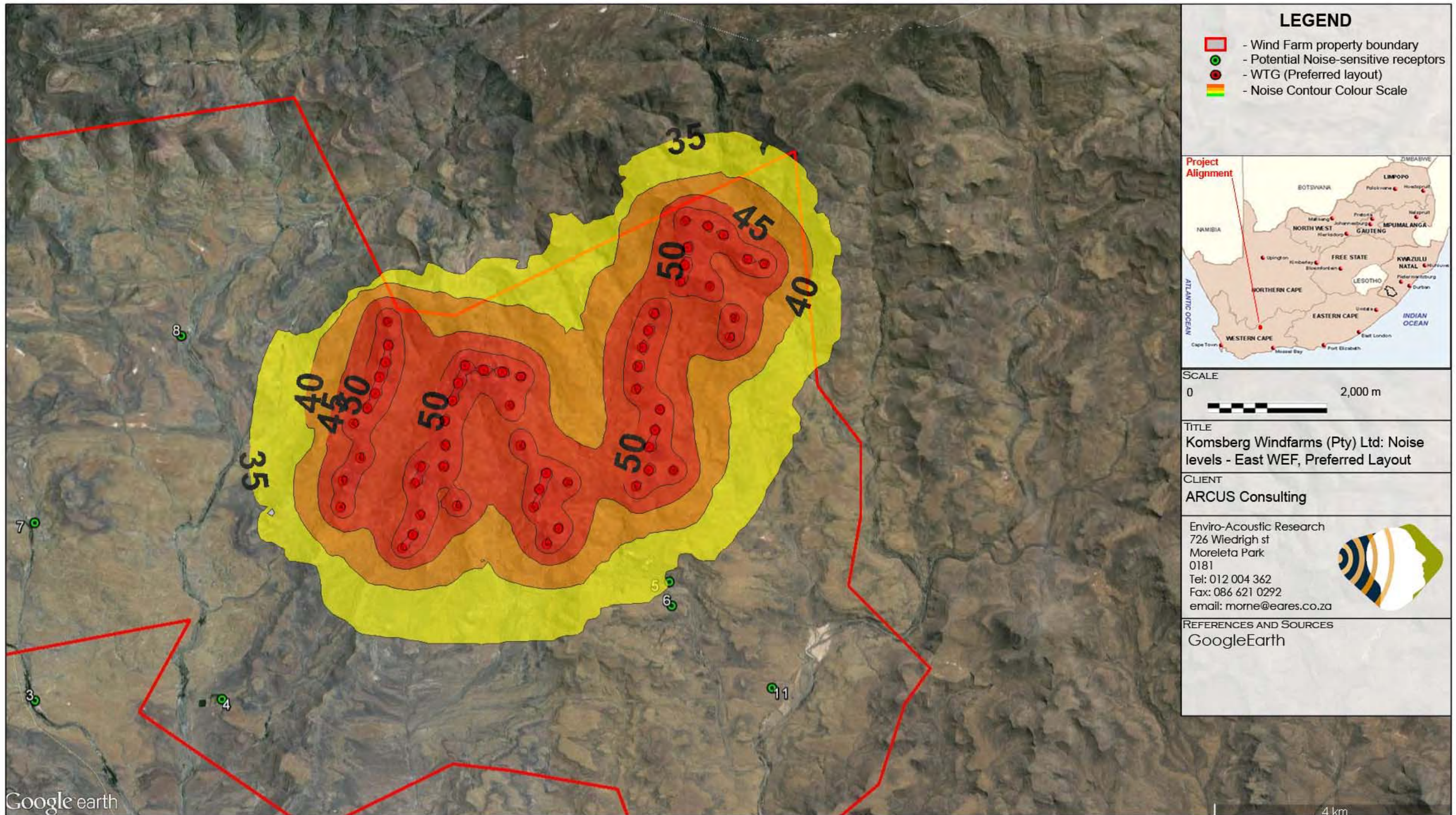


FIGURE 9.9: PROJECTED CONCEPTUAL NIGHT-TIME NOISE RATING LEVELS DURING OPERATION – CUMULATIVE EFFECTS - PREFERRED LAYOUT (VESTAS WTG).

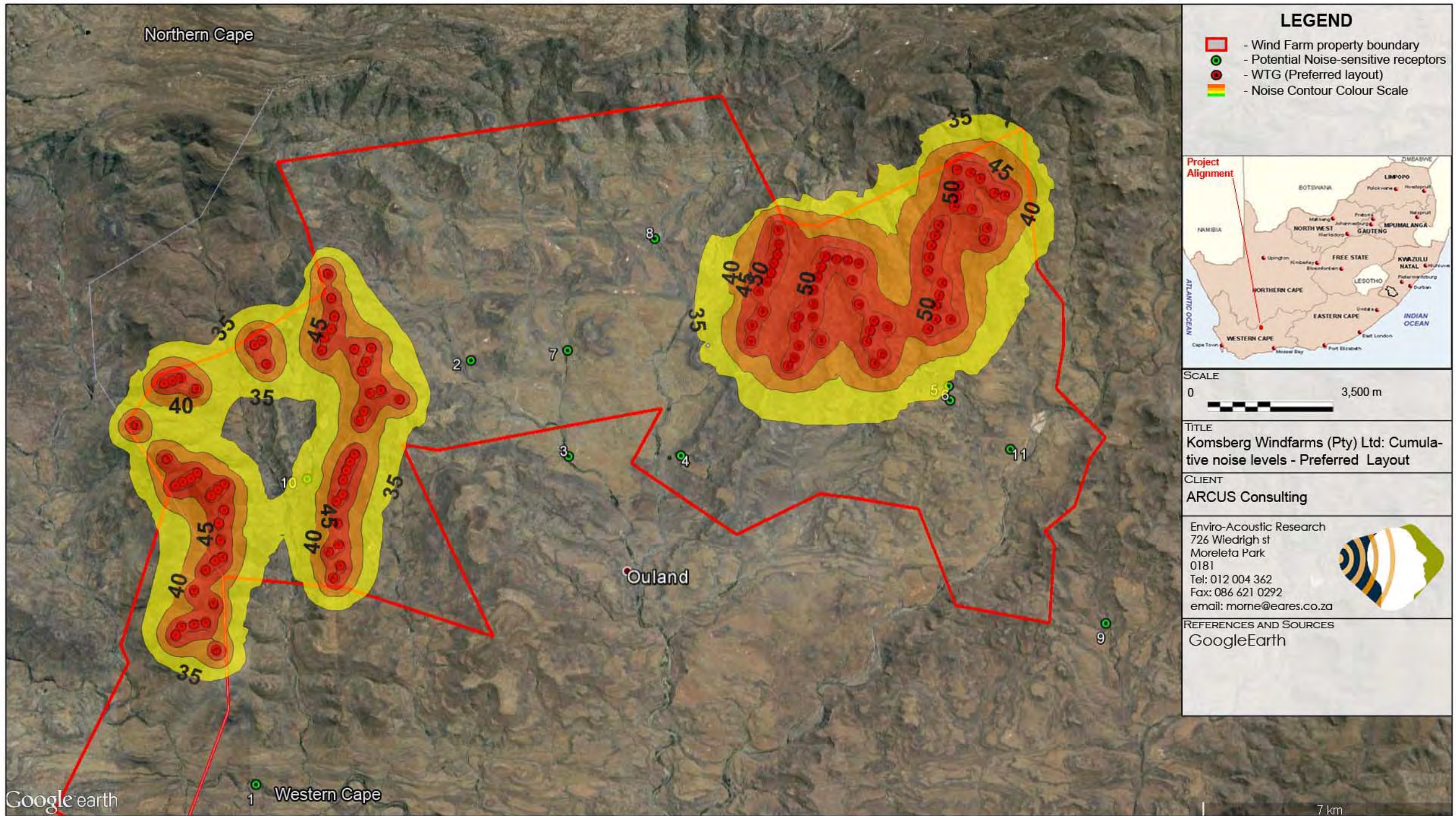


FIGURE 9.10: PHOTOMONTAGES: VIEWPOINTS 1 AND 2.



viewpoint 1 • Looking towards Komsberg West from gravel road near Meintjiesplaas : distance 4.8km



viewpoint 2 • Looking towards Komsberg West from gravel road near Kareedornkraal : distance 4.5 km

FIGURE 9.11: PHOTOMONTAGES: VIEWPOINTS 3 AND 4.



viewpoint 3 • Looking towards Komsberg East from gravel road opposite Bbunek : distance 10.7km



viewpoint 4 • Looking towards Komsberg East from gravel road near Banksdrif : distance 9.4km

FIGURE 9.12: PHOTOMONTAGES: VIEWPOINTS 5 AND 6.



viewpoint 5 • Looking towards Komsberg East from farm werf De Fontein : distance 8.1km



viewpoint 6 • Looking towards Komsberg East from gravel road near Roodawel : distance 8.2km

FIGURE 9.13: PHOTOMONTAGES: VIEWPOINTS 7 AND 9.

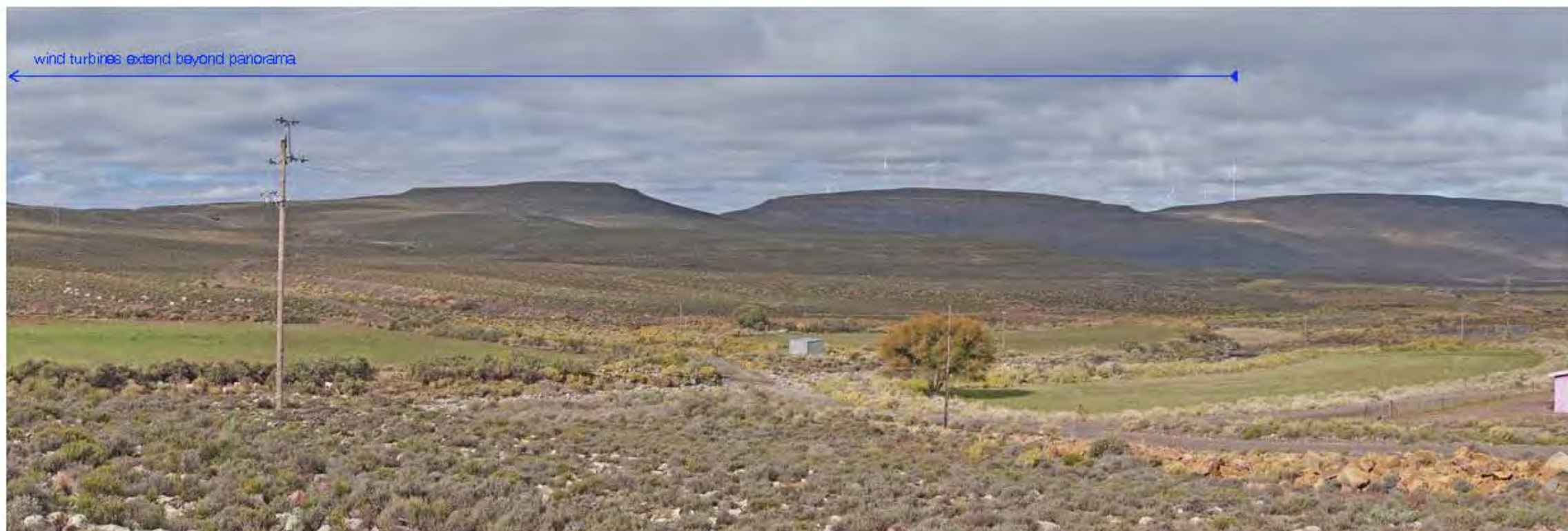


viewpoint 7 • Looking towards Komsberg West from gravel road at Perdebos : distance 1.5km



viewpoint 9 • Looking towards Komsberg West from gravel road at 2.4km distance

FIGURE 9.14: PHOTOMONTAGES: VIEWPOINTS 10 AND 11.



viewpoint 10 • Looking towards Komsberg West from Welgemoed Farm : distance 4.3km



viewpoint 11 • Looking towards Komsberg West from Komsberg Pass : distance 8.2km

FIGURE 9.15: PHOTOMONTAGES: VIEWPOINTS 12 AND 13.



viewpoint 12 • Looking towards Komsberg West from entrance to Komsberg Nature Reserve : distance 5.8km



viewpoint 13 • Looking towards Komsberg West from gravel road near De Kom Farm : distance 7.3km

FIGURE 9.16: PHOTOMONTAGES: VIEWPOINT 14.

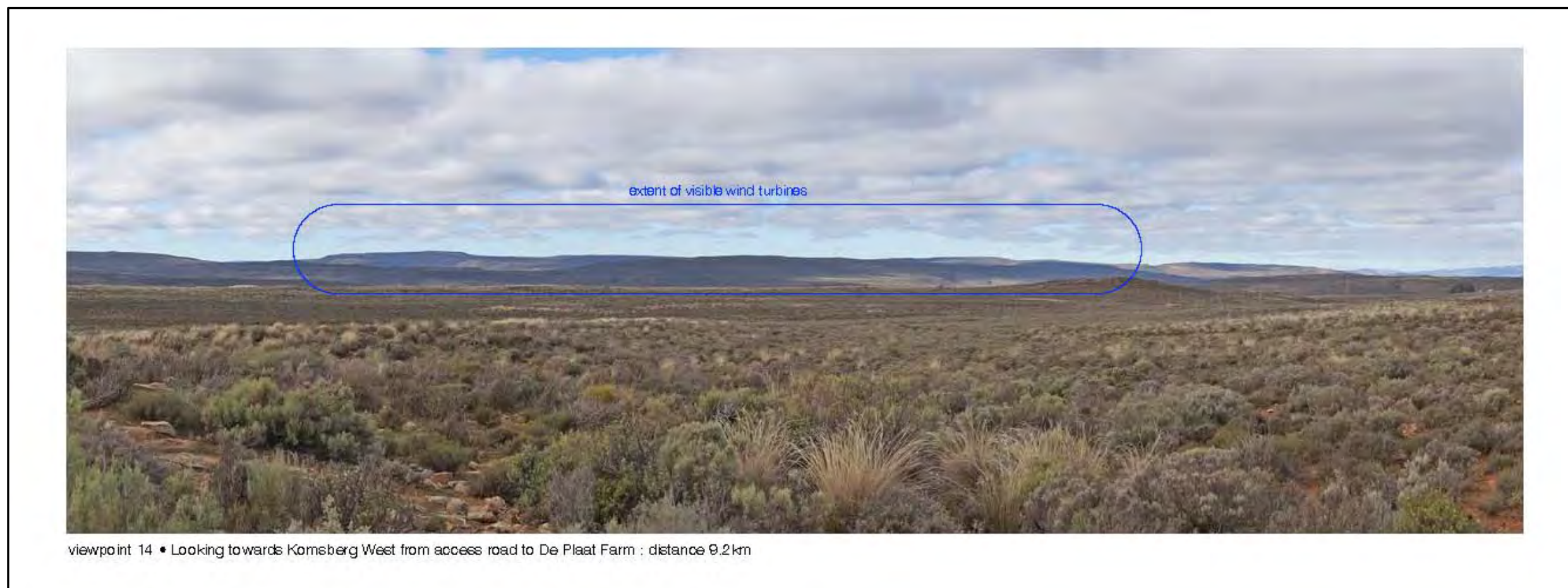


FIGURE 9.17: VISUAL EXPOSURE – VIEWSHED AND DISTANCE RADII.

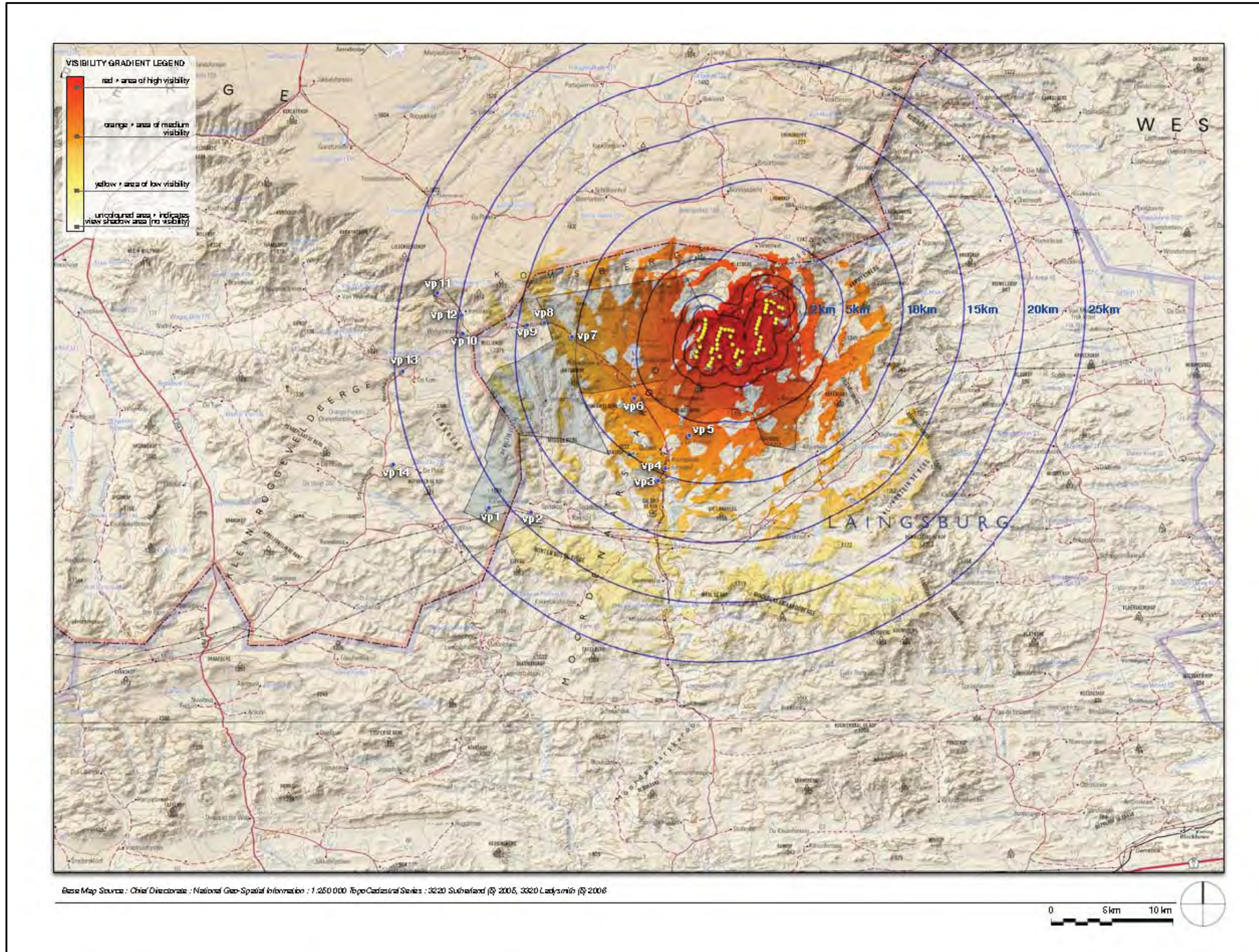


FIGURE 9.18: LOCAL CONTEXT – VIEWPOINTS AND DISTANCE RADII.

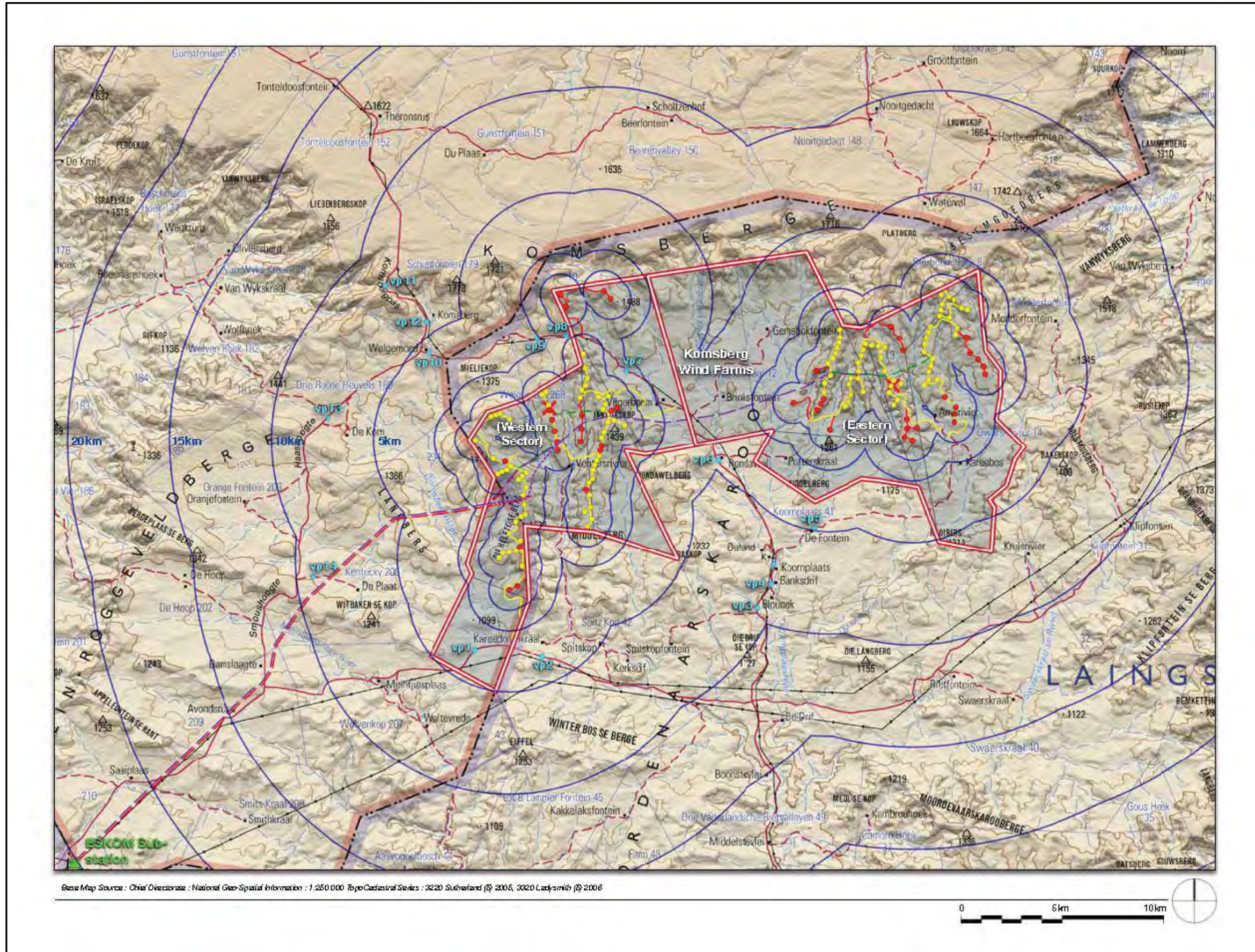


FIGURE 9.19a: PROPOSED AMENDED LAYOUT BASED ON VISUAL CONSTRAINTS (PREFERRED AND ALTERNATE LAYOUTS).

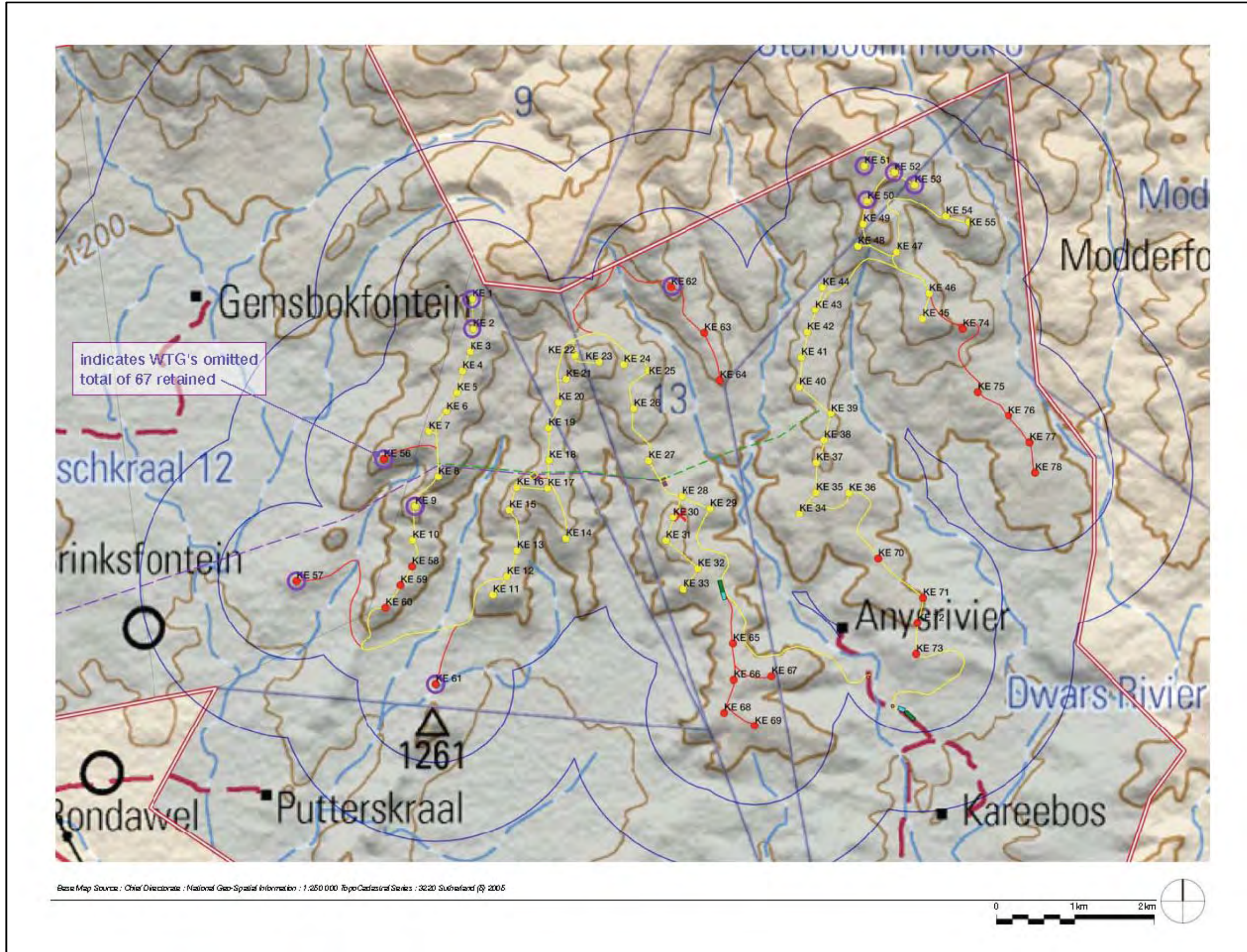
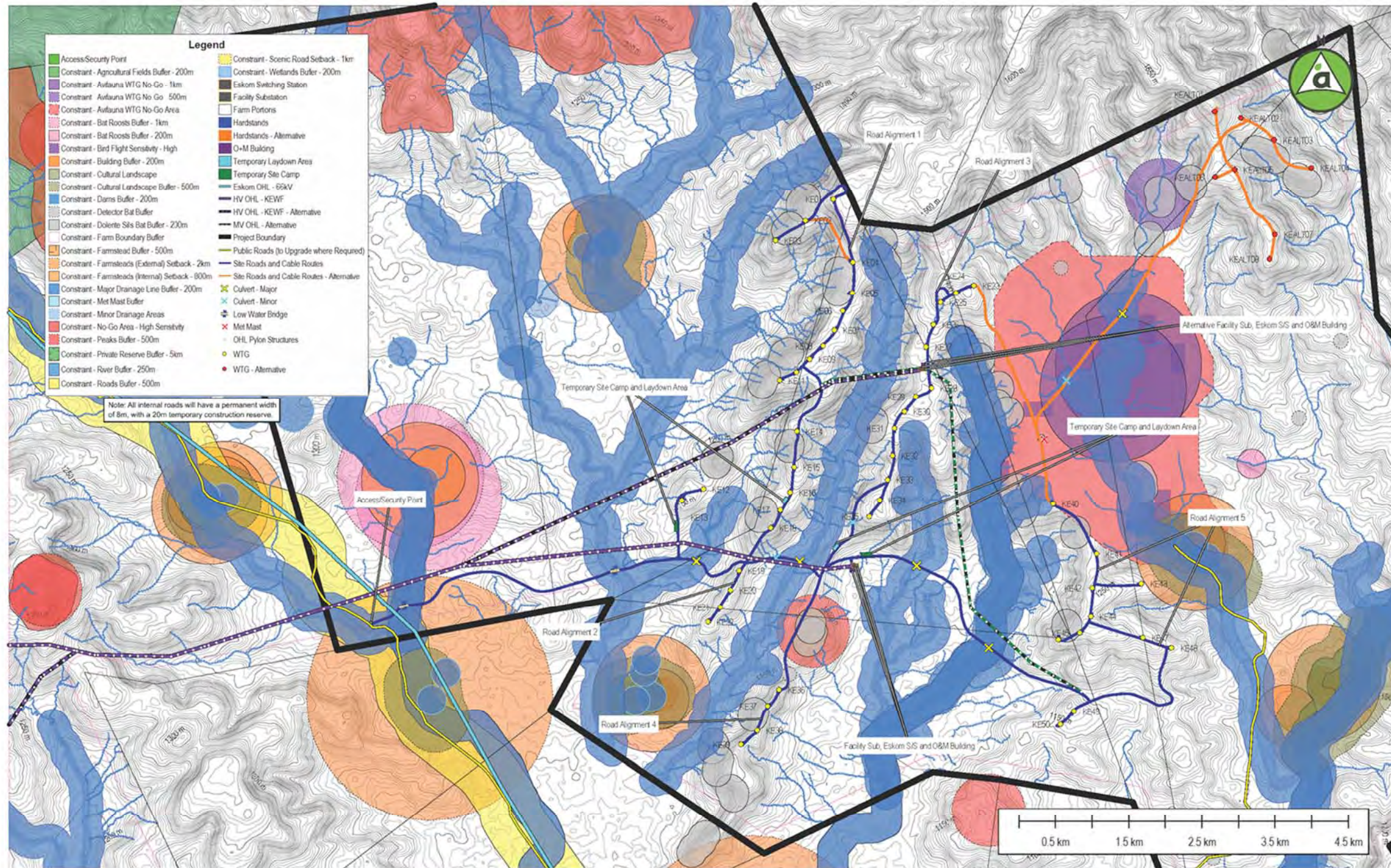


FIGURE 9.19b: FINAL LAYOUT DEPICTING RELOCATION OF TURBINES POST INPUT FROM VISUAL SPECIALISTS¹



Note: All internal roads will have a permanent width of 8m, with a 20m temporary construction reserve.

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		0	6/10/2015	ISSUED FOR ENVIRONMENTAL REVIEW	NA	T. FICK	S. EGLINTON	KOMSBERG EAST WIND FARM	PROJECT No. 111391
		1	11/03/2016	ISSUED FOR ENVIRONMENTAL REVIEW	NA			TITLE	SCALE
								SITE DEVELOPMENT PLAN	SIZE
									AS INDICATED
								DRAWING No.	REV
								KBEWF-GEN-SDP-001	1

FIGURE 9.20: DEA MAP INDICATING NUMBER OF RENEWABLE ENERGY APPLICATIONS 2015.

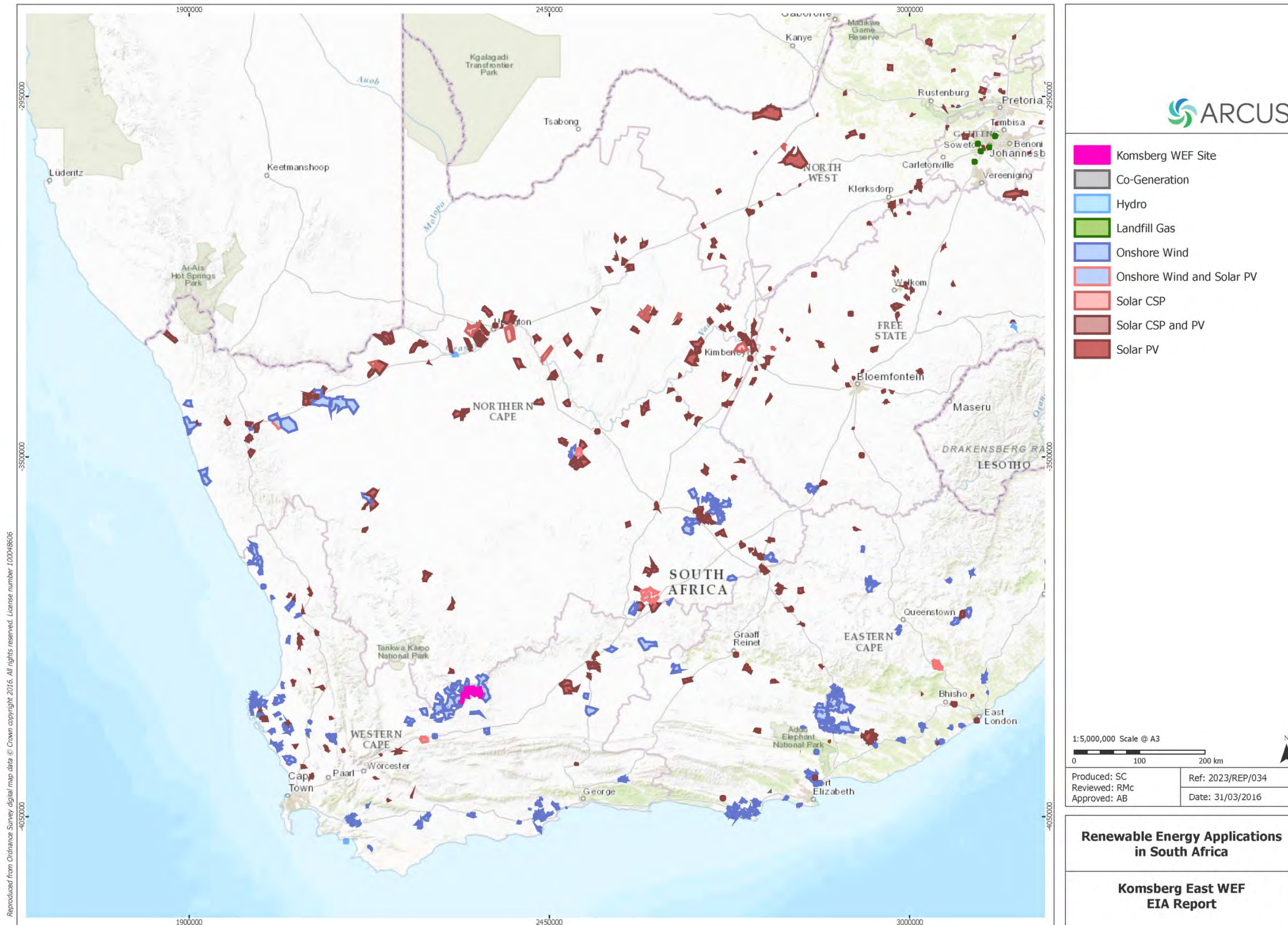


FIGURE 9.21: OVERALL ENVIRONMENTAL SENSITIVITY MAP.

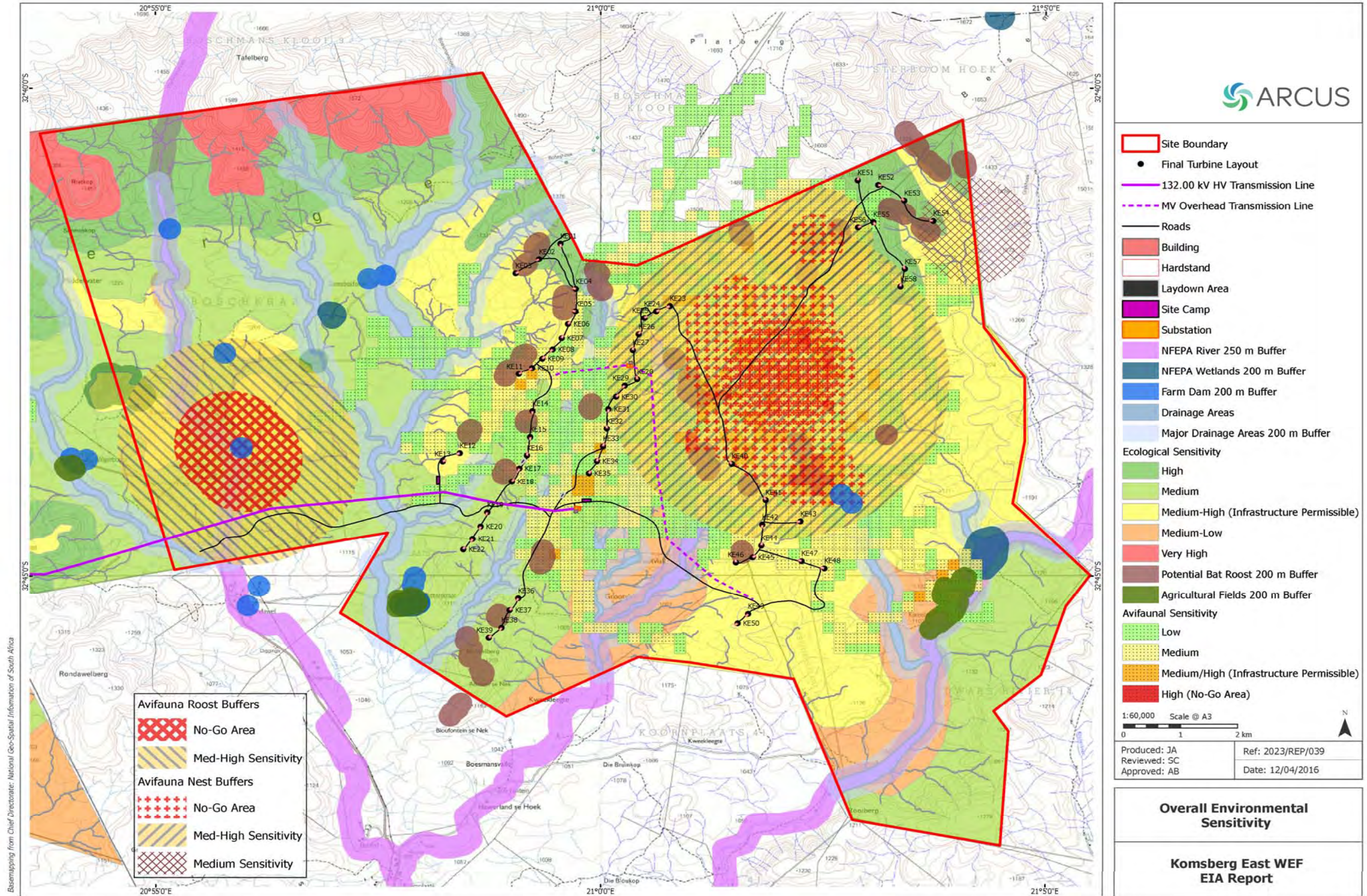


FIGURE 9.22: INFRASTRUCTURE LOCATIONS – LOCATIONS WHERE CONSTRUCTION ACTIVITIES MAY TAKE PLACE.

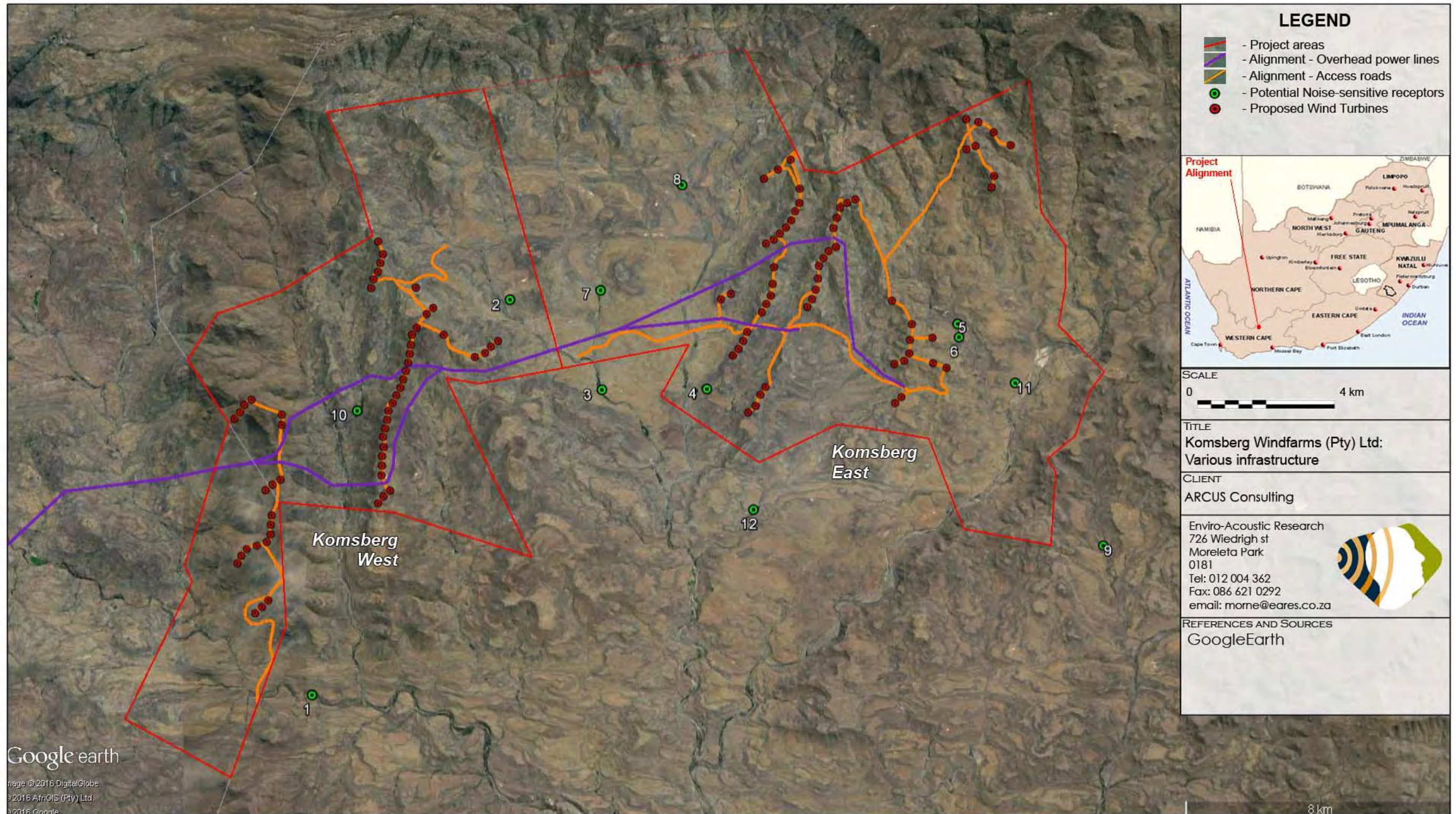


FIGURE 9.23: PROJECTED CONCEPTUAL NIGHT-TIME NOISE RATING LEVELS DURING OPERATION – EAST WEF (ACCIONA WTG).

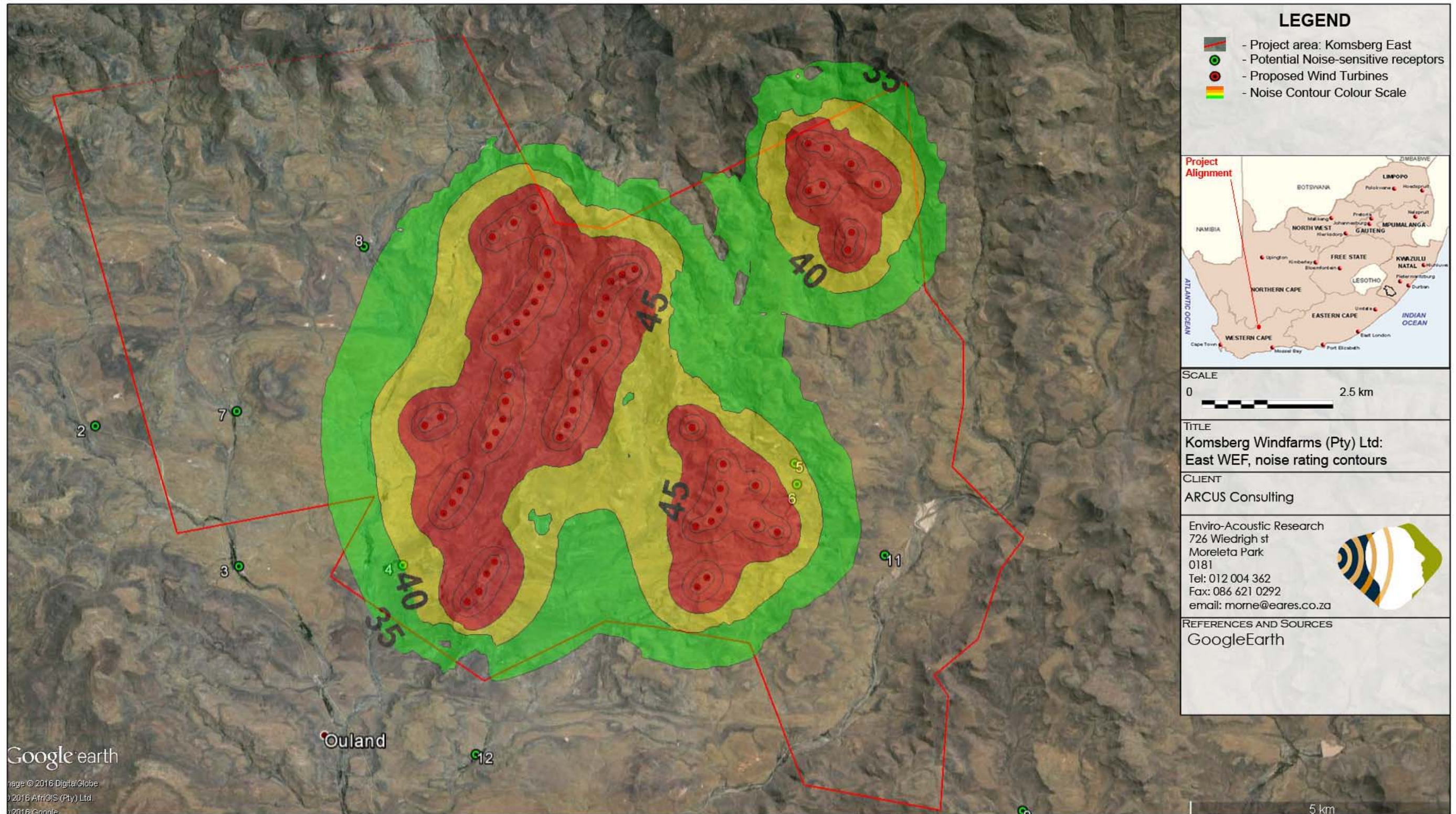


FIGURE 9.24: PROJECTED CONCEPTUAL NIGHT-TIME NOISE RATING LEVELS DURING OPERATION – KOMSBERG CUMULATIVE (ACCIONA WTG).

