APPENDIX R -

ATMOSPHERIC DISPERSION SIMULATION RESULTS – AIR POLLUTANT CONCENTRATIONS AND DUST DEPOSITION RATES DUE TO MATIMBA POWER STATION EMISSIONS

Scenario	Pollutant	Averaging Period	Figure No.
Current Matimba Power Station Emissions	Sulphur dioxide	Highest hourly	C.1
		Highest daily	C.2
		Annual average	C.3
		Frequency of	C.4
		exceedance of hourly	
		limit of 350 µg/m ³	
		Frequency of	C.5
		exceedance of daily	
		limit of 125 µg/m ³	
	Nitrogen dioxide	Highest hourly	C.6
		Annual average	C.7
	PM10	Highest daily	C.8
		Annual average	C.9
	Dustfall	Maximum monthly	C.10
		dustfall rate	

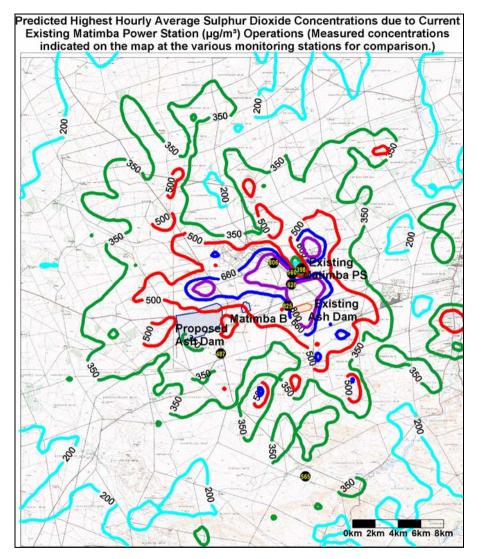


Figure C.1 Predicted highest hourly average sulphur dioxide due to current routine Matimba Power Station emissions

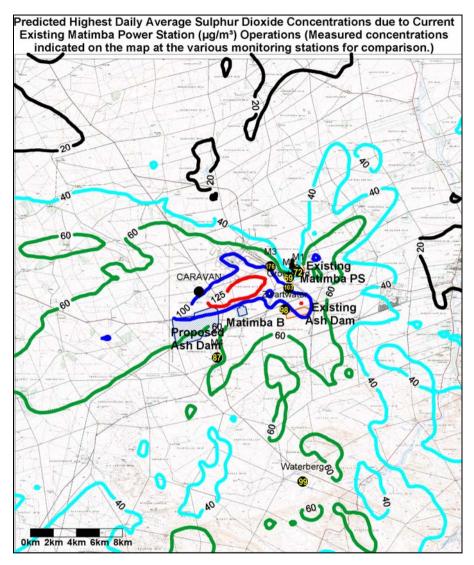


Figure C.2 Predicted highest daily average sulphur dioxide due to current routine Matimba Power Station emissions

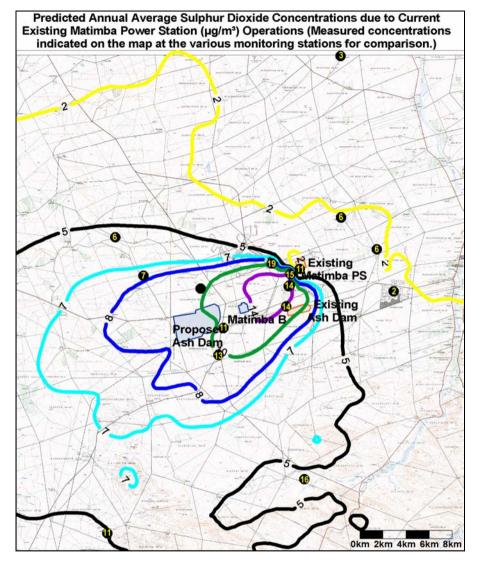


Figure C.3 Predicted annual average sulphur dioxide due to current routine Matimba Power Station emissions

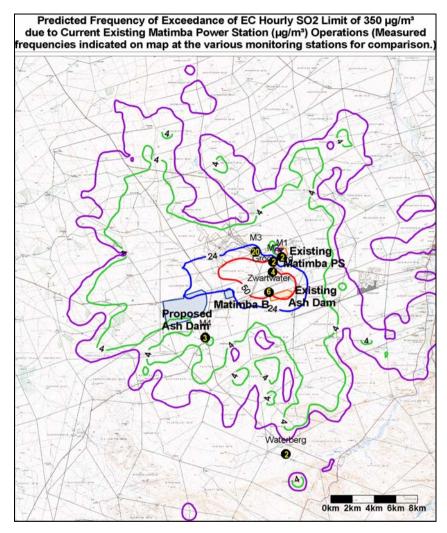


Figure C.4 Predicted frequencies of exceedance of the EC hourly sulphur dioxide limit of 350 μ g/m³ due to Matimba Power Station emissions

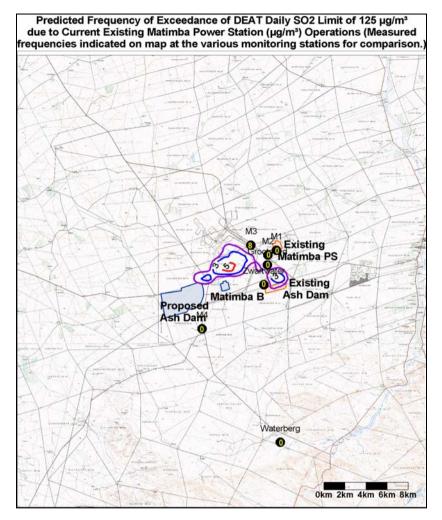


Figure C.5 Predicted frequencies of exceedance of the SA daily sulphur dioxide limit of 350 μ g/m³ due to Matimba Power Station emissions

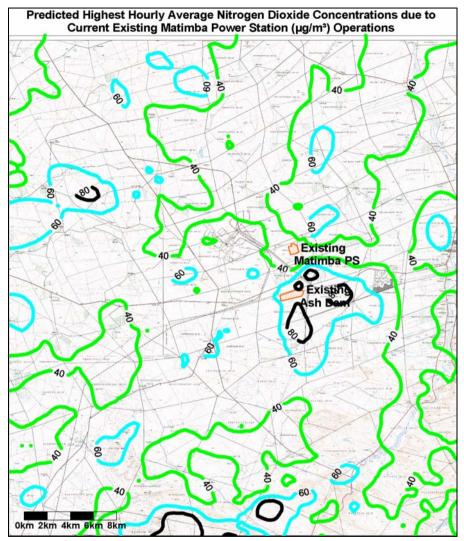


Figure C.6 Predicted highest hourly average nitrogen dioxide due to current routine Matimba Power Station emissions

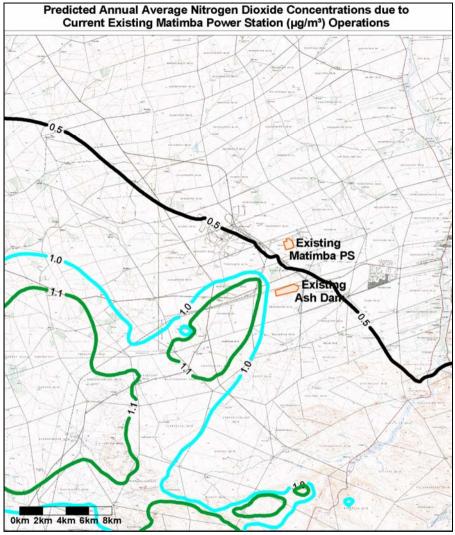


Figure C.7 Predicted annual average nitrogen dioxide due to current routine Matimba Power Station emissions

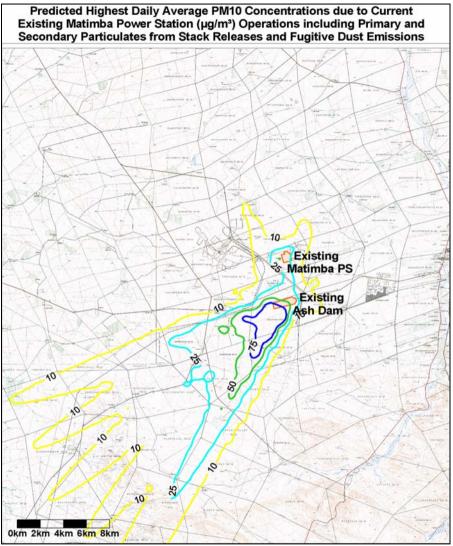


Figure C.8 Predicted highest daily average PM10 concentrations due to current routine Matimba Power Station emissions

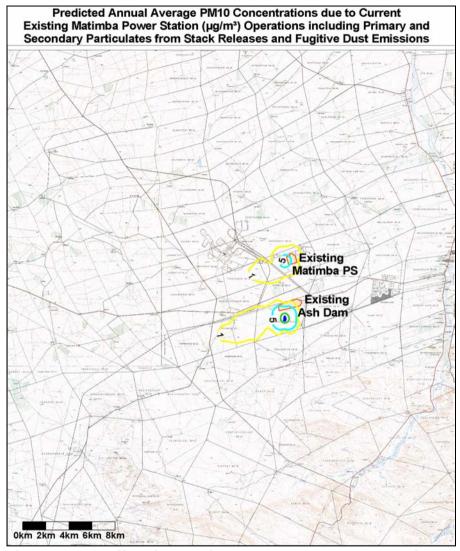


Figure C.9 Predicted annual average PM10 concentrations due to current routine Matimba Power Station emissions

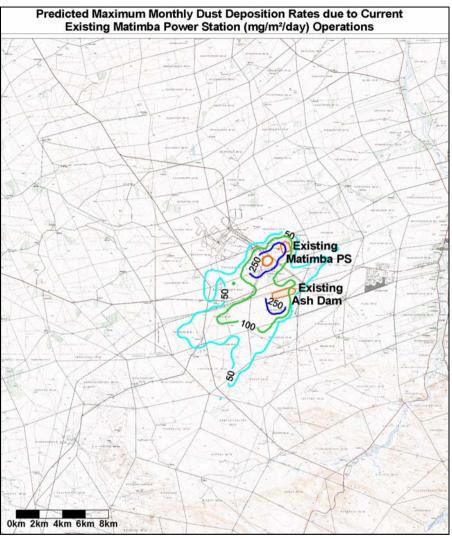


Figure C.10 Predicted maximum monthly dustfall rate due to current routine Matimba Power Station emissions