

SG Code	Farm No.	Portion No.	Farm Name
T0HS00000000005700035	57	35	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700036	57	36	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700048	57	48	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700049	57	49	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700050	57	50	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700051	57	51	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700052	57	52	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700053	57	53	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700054	57	54	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700055	57	55	AMERSFOORT TOWN AND TOWNL
T0HS00000000005700056	57	56	AMERSFOORT TOWN AND TOWNL
T0HS00000000005800000	58	R	VLAKPLAATS 58 HS
T0HS00000000006000003	60	3	SCHULPSPRUIT 60 HS
T0HS00000000006000023	60	23	SCHULPSPRUIT 60 HS
T0HS00000000006000024	60	24	SCHULPSPRUIT 60 HS
T0HS00000000008500010	85	10	ELANDSPOORT 85 HS
T0HS00000000008500018	85	18	ELANDSPOORT 85 HS
T0HS00000000008500019	85	19	ELANDSPOORT 85 HS
T0HS00000000007700000	77	R	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007700001	77	1	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007700002	77	2	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007700003	77	3	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007700004	77	4	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007700005	77	5	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007700006	77	6	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007700007	77	7	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007700008	77	8	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007700009	77	9	MOOIMEISJESFONTEIN 77 HS
T0HS00000000007900000	79	R	MEZIG 79 HS
T0HS00000000007900001	79	1	MEZIG 79 HS
T0HS00000000007900002	79	2	MEZIG 79 HS
T0HS00000000007900003	79	3	MEZIG 79 HS
T0HS00000000007900004	79	4	MEZIG 79 HS
T0HS00000000007900005	79	5	MEZIG 79 HS
T0HS00000000007900006	79	6	MEZIG 79 HS
T0HS00000000007900007	79	7	MEZIG 79 HS
T0HS00000000007900008	79	8	MEZIG 79 HS
T0HS00000000007900009	79	9	MEZIG 79 HS
T0HS00000000007900010	79	10	MEZIG 79 HS
T0HS00000000007900011	79	11	MEZIG 79 HS
T0HS00000000007900012	79	12	MEZIG 79 HS
T0HS00000000007900013	79	13	MEZIG 79 HS
T0HS00000000007900014	79	14	MEZIG 79 HS
T0HS00000000008000000	80	R	HOLFFONTEIN 80 HS
T0HS00000000008000001	80	1	HOLFFONTEIN 80 HS

SG Code	Farm No.	Portion No.	Farm Name
T0HS00000000008000005	80	5	HOLFFONTEIN 80 HS
T0HS00000000008000006	80	6	HOLFFONTEIN 80 HS
T0HS00000000008000007	80	7	HOLFFONTEIN 80 HS
T0HS00000000008000008	80	8	HOLFFONTEIN 80 HS
T0HS00000000008000010	80	10	HOLFFONTEIN 80 HS
T0HS00000000008000011	80	11	HOLFFONTEIN 80 HS
T0HS00000000008000012	80	12	HOLFFONTEIN 80 HS
T0HS00000000008000012	80	12	HOLFFONTEIN 80 HS
T0HS00000000008000014	80	14	HOLFFONTEIN 80 HS
T0HS00000000008000015	80	15	HOLFFONTEIN 80 HS
T0HS00000000008000022	80	22	HOLFFONTEIN 80 HS
T0HS00000000008000024	80	24	HOLFFONTEIN 80 HS
T0HS00000000008000025	80	25	HOLFFONTEIN 80 HS
T0HS00000000008500005	85	5	ELANDSPOORT 85 HS
T0HS00000000008500006	85	6	ELANDSPOORT 85 HS
T0HS00000000008500007	85	7	ELANDSPOORT 85 HS
T0HS00000000008500008	85	8	ELANDSPOORT 85 HS
T0HS00000000008500009	85	9	ELANDSPOORT 85 HS
T0HS00000000005900000	59	R	WEILAND 59 HS
T0HS00000000009700004	97	4	TWEEFFONTEIN 97 HS
T0HS00000000009700005	97	5	TWEEFFONTEIN 97 HS
T0HS00000000009700006	97	6	TWEEFFONTEIN 97 HS
T0HS00000000007800029	78	29	ELANDSPOORT THERON 78 HS
T0HS00000000008100015	81	15	WITKOPPIES 81 HS
T0HS00000000008200000	82	R	WELGEDACHT 82 HS
T0HS00000000008200002	82	2	WELGEDACHT 82 HS
T0HS00000000008200003	82	3	WELGEDACHT 82 HS
T0HS00000000008200004	82	4	WELGEDACHT 82 HS
T0HS00000000008600022	86	22	OUDEHOUT KLOOF 86 HS
T0HS00000000011500000	115	R	JAPTRAP 115 HS
T0HS00000000011600000	116	R	WERDA 116 HS
T0HS00000000011700000	117	R	KLEIN RIETFFONTEIN 117 HS
T0IS00000000052500007	525	7	MOOIGELEGEN 525 IS
T0IS00000000052500009	525	9	MOOIGELEGEN 525 IS
T0IS00000000052500010	525	10	MOOIGELEGEN 525 IS
T0IS00000000052500013	525	13	MOOIGELEGEN 525 IS
T0IS00000000052500015	525	15	MOOIGELEGEN 525 IS
T0IS00000000052600002	526	2	VLEIFFONTEIN 526 IS
T0IS00000000052500000	525	R	MOOIGELEGEN 525 IS
T0IS00000000052500001	525	1	MOOIGELEGEN 525 IS

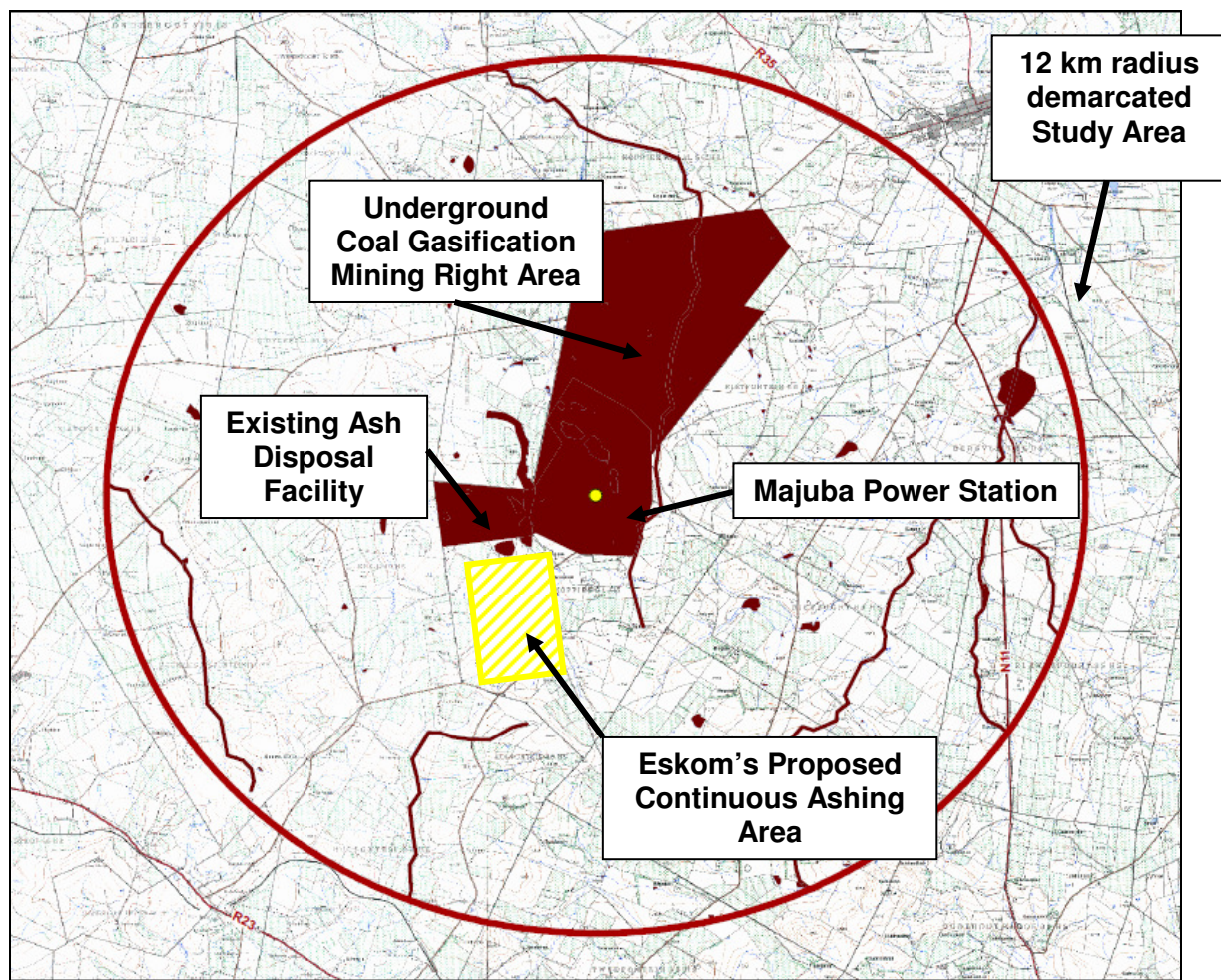


Figure 6.4: The location of the 12km demarcated study area

Table 6.2: Farm Portions associated with Eskom's proposed Continuous Ashing Area

SG_CODE	FARM_NO	PORTION	FARM NAME
T0HS000000000006700001	67	1	Roodekopjes 67 HS Portion 1
T0HS000000000008100000	81	Rem	Witkoppies 81 HS remainder
T0HS000000000008100001	81	1	Witkoppies 81 HS Portion 1
T0HS000000000008100002	81	2	Witkoppies 81 HS Portion 2
T0HS000000000008100005	81	5	Witkoppies 81 HS Portion 5
T0HS000000000008100006	81	6	Witkoppies 81 HS Portion 6
T0HS000000000008100007	81	7	Witkoppies 81 HS Portion 7
T0HS000000000008100013	81	13	Witkoppies 81 HS Portion 13
T0HS000000000008100014	81	14	Witkoppies 81 HS Portion 14

6.3 Description of the Baseline Environment

6.3.1 Topography

The study area, within the 12 km radius, is characterised by strong undulating character typical of the Mpumalanga province with hills and koppies to the south and east. The natural topography of the area has been disturbed as a result of various mining, agricultural and power generation activities.

6.3.2 Climate

The climate in the study area can be described as typical highveld conditions with summers that are moderate and wet, while winters are cold and dry. Severe frost and snow are sometimes experienced. The area also falls within the mist belt.

The mean annual precipitation is approximately 760 mm/year, with rain experienced predominantly in the summer months (October to April). **Figure 6.5** shows the monthly rainfall for the Majuba Power Station experienced during the period August 2011 to July 2012.

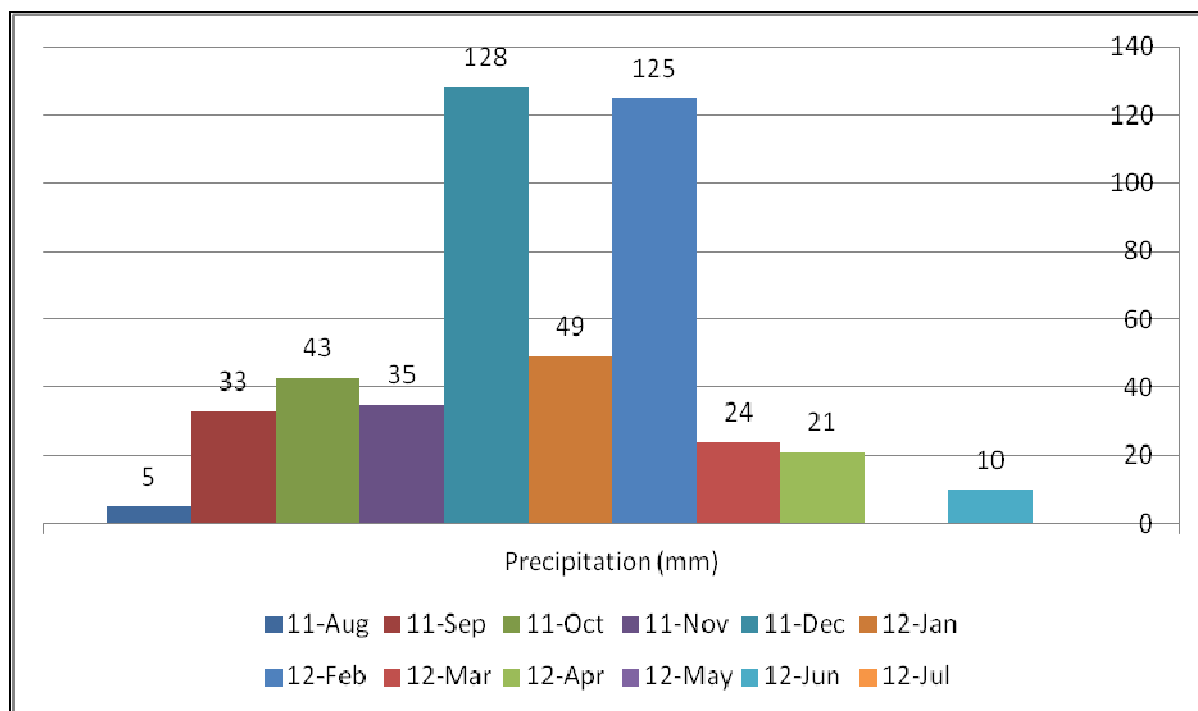


Figure 6.5: The monthly rainfall as measured at Majuba Power Station during the period August 2011 to July 2012

Annual average maximum, minimum and mean temperatures are given as 26.3°C, 0.7°C and 15.1°C, respectively, based on the data collected at Eskom's Majuba monitoring station for the period 2009-2011. Average daily maximum temperatures range from 25.6°C in February and December to 16.6°C in June, with daily minima ranging from 16°C in January to 0.7°C in July (**Figure 6.6**).

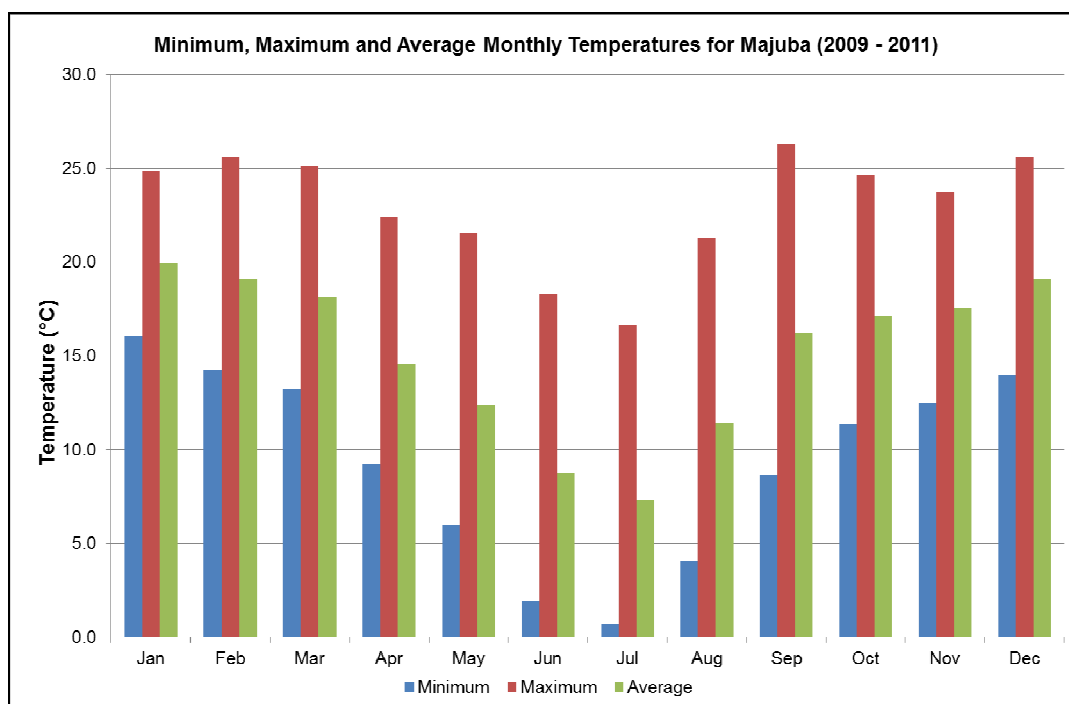


Figure 6.6: Average monthly maximum, minimum and mean temperatures for Majuba Power Station

The prevailing wind direction is recorded as being co-dominant, with both easterly and west-north-westerly winds. **Figure 6.7** shows the period, day-time and night-time wind roses for the Majuba Power Station.

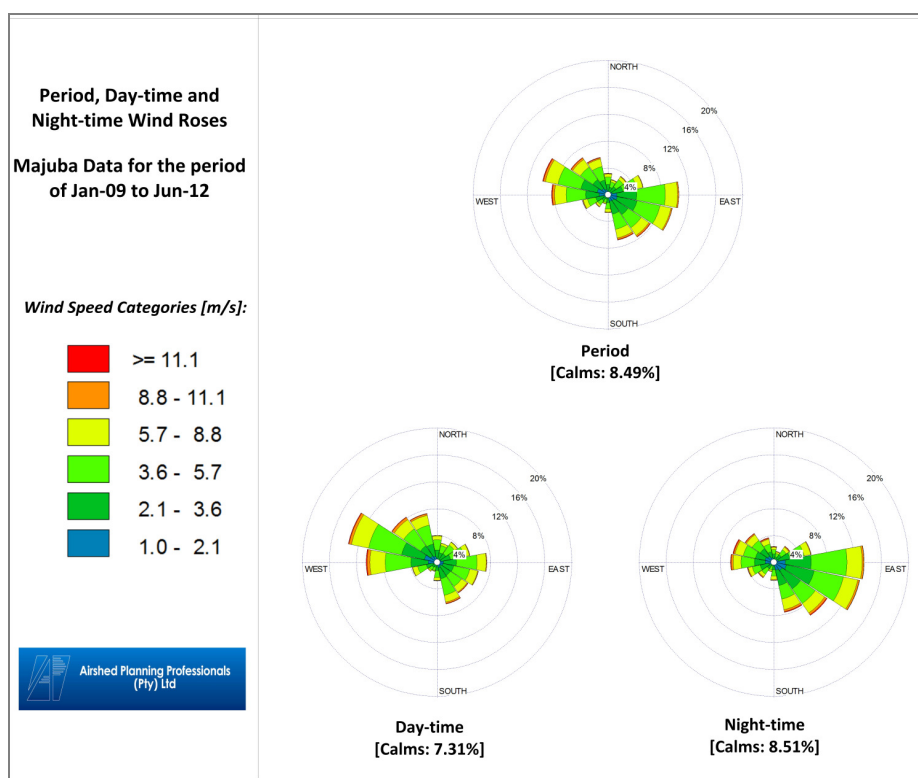


Figure 6.7: Period, day-time and night-time wind roses for the Majuba Power Station