

APPENDIX 9 AIR QUALITY BASELINE STUDY

Table A1 Monitored NO₂ Concentrations (µg/m³)

Location	Easting	Northing	24/02/15	24/03/15	24/04/15
			– 24/03/15	– 24/04/15	– 19/05/15
Allahou- Bazi	0220491	0778519	4.7	5.7	9.9
			4.9	7.6	8.5
Angovia	0219830	0778059	4.9	7.6	6.4
			4.7	5.7	6.4
Kouakou Gnanou	0222354	0774623	3.8	3.8	6.2
			4.9	3.8	5.2
Akakro	0217638	0775740	3.8	3.8	5.2
			2.3	3.8	7.3
Ex Ban law	0223506	0778869	2.1	3.8	5.2
			2.1	3.8	5.9

Table A2 Monitored SO₂ Concentrations (µg/m³)

Location	Easting	Northing	24/02/15	24/03/15	24/04/15
			– 24/03/15	– 24/04/15	– 19/05/15
Allahou- Bazi	0220491	0778519	bdl	62.7	94.5
			bdl	bdl	bdl
Angovia	0219830	0778059	bdl	62.9	75.9
			bdl	80.0	80.7
Kouakou Gnanou	0222354	0774623	103.1	bdl	bdl
			103.1	63.0	bdl
Akakro	0217638	0775740	bdl	59.1	78.1
			bdl	66.7	82.8
Ex Ban law	0223506	0778869	bdl	bdl	94.5
			bdl	bdl	bdl

bdl = below detection limit

Table A3 Deposited Dust Rates (mg/m²/day)

Location	Easting	Northing	24/02/15 – 24/03/15	24/03/15 – 24/04/15	24/04/15 – 19/05/15
Allahou- Bazi	0220491	0778519	660.3	554.7	322.7
Angovia	0219830	0778059	490.7	417.9	403.9
Kouakou Gnanou	0222354	0774623	383.7	313.8	331.9
Akakro	0217638	0775740	270.0	261.8	317.2
Ex Ban law	0223506	0778869	108.7	119.0	81.4

Table A4 E-Sampler Monitoring

	PM _{2.5}	PM ₁₀
Average 15 minute Concentration (µg/m ³)	8.1	18.3
Maximum 15 minute Concentration (µg/m ³)	67	204
Minimum 15 minute Concentration (µg/m ³)	1	1
Data Capture (26/03/2015 – 04/06/2015) (%)	44.3	69.4