

APPENDIX 4 - TABLES 8.20A & 8.20B

Air Quality Tabulated Data

Table 8.20A: Maximum nitrogen dioxide (1-hour mean, 99.79thile) predicted concentrations at human health receptors – Normal operation (worst-case CCGT and peaking plant)

Receptor ID	Receptor name	Hourly mean nitrogen dioxide PC ($\mu\text{g}/\text{m}^3$)	PC / NAQS	Magnitude of change	2022 Nitrogen dioxide baseline ¹ ($\mu\text{g}/\text{m}^3$)	PC as % of headroom	Effect
1	Chapel Haddlesey	7.1	3.6%	Imperceptible	28	4%	Negligible
2	Chapel Haddlesey	10	5.1%	Imperceptible	28	6%	Negligible
3	Eggborough	12	5.9%	Imperceptible	35	7%	Negligible
4	Kellington	6.0	3.0%	Imperceptible	31	4%	Negligible
5	West Haddlesey	4.9	2.4%	Imperceptible	27	3%	Negligible
6	Gallows Hill	39	19%	Very low	31	23%	Minor adverse
7	Hensall	19	9.3%	Imperceptible	31	11%	Negligible
8	Temple Hirst	9.3	4.6%	Imperceptible	31	5%	Negligible
9	Springfield Farm	6.4	3.2%	Imperceptible	33	4%	Negligible
10	Hazelgrove Farm & caravan park	6.6	3.3%	Imperceptible	33	4%	Negligible
11	Properties, Roall Lane	6.2	3.1%	Imperceptible	31	4%	Negligible
12	Properties, Roall Water Works	7.0	3.5%	Imperceptible	31	4%	Negligible
13	Roall Hall Farm	6.1	3.1%	Imperceptible	29	4%	Negligible
14	Roall Manor Farm	5.6	2.8%	Imperceptible	31	3%	Negligible
15	EPL Sports & Social	13	6.3%	Imperceptible	32	8%	Negligible
16	East Haddlesey	11	5.4%	Imperceptible	28	6%	Negligible
17(T)	PRoW, A19-Tranmore Lane-cricket pitch	8.0	4.0%	Imperceptible	32	5%	Negligible
18(T)	PRoW, Gallows Hill-Eggborough Ings	44	22%	Low	30	26%	Moderate adverse
19	Gallows Hill (2)	39	19%	Very low	31	23%	Minor adverse
20	Recreation ground / Myrtle Grange Farm	19	9.6%	Imperceptible	31	11%	Negligible
21	Temple Farm	14	6.8%	Imperceptible	28	8%	Negligible
22(T)	PRoW, Hazel Old Lane	62	31%	Medium	32	37%	Moderate adverse
23	AQMA, M62	3.8	1.9%	Imperceptible	43	2%	Negligible
24	AQMA, New Street, Selby	3.2	1.6%	Imperceptible	34	2%	Negligible
	NAQS	200					

(T) indicates transient receptor; 1. Baseline assumed to be as 2013 background as worst-case; PC=process contribution; Headroom = (NAQS-2*baseline)

Table 8.20B: Maximum carbon monoxide (running 8-hour mean) predicted concentrations at human health receptors – Normal operation (worst-case CCGT and peaking plant)

Receptor ID	8-Hour mean CO PC (µg/m ³)	PC / NAQS	Magnitude of change	1-Hour mean CO PC (µg/m ³)	PC / NAQS	Magnitude of change	2022 CO baseline ¹ (µg/m ³)	8-hour PC as % of headroom	CO Effect
1	27	<1%	Imperceptible	56	<1%	Imperceptible	265	<1%	Negligible
2	51	<1%	Imperceptible	89	<1%	Imperceptible	265	1%	Negligible
3	110	1%	Imperceptible	200	1%	Imperceptible	291	1%	Negligible
4	39	<1%	Imperceptible	52	<1%	Imperceptible	282	<1%	Negligible
5	16	<1%	Imperceptible	41	<1%	Imperceptible	263	<1%	Negligible
6	185	2%	Imperceptible	260	1%	Imperceptible	285	2%	Negligible
7	83	<1%	Imperceptible	150	1%	Imperceptible	285	1%	Negligible
8	38	<1%	Imperceptible	63	<1%	Imperceptible	271	<1%	Negligible
9	21	<1%	Imperceptible	47	<1%	Imperceptible	293	<1%	Negligible
10	19	<1%	Imperceptible	38	<1%	Imperceptible	293	<1%	Negligible
11	14	<1%	Imperceptible	40	<1%	Imperceptible	285	<1%	Negligible
12	72	<1%	Imperceptible	240	1%	Imperceptible	285	1%	Negligible
13	25	<1%	Imperceptible	46	<1%	Imperceptible	278	<1%	Negligible
14	15	<1%	Imperceptible	41	<1%	Imperceptible	289	<1%	Negligible
15	33	<1%	Imperceptible	49	<1%	Imperceptible	289	<1%	Negligible
16	51	<1%	Imperceptible	72	<1%	Imperceptible	271	1%	Negligible
17(T)	22	<1%	Imperceptible	89	<1%	Imperceptible	289	<1%	Negligible
18(T)	240	2%	Imperceptible	280	1%	Imperceptible	281	2%	Negligible
19	180	1%	Imperceptible	220	1%	Imperceptible	285	2%	Negligible
20	90	<1%	Imperceptible	130	<1%	Imperceptible	285	1%	Negligible
21	69	<1%	Imperceptible	86	<1%	Imperceptible	271	1%	Negligible
22(T)	370	<1%	Imperceptible	350	1%	Imperceptible	289	4%	Negligible
23 (AQMA, M62)	23	<1%	Imperceptible	29	<1%	Imperceptible	315	<1%	Negligible
24 (AQMA, Selby)	10	<1%	Imperceptible	27	<1%	Imperceptible	274	<1%	Negligible
NAQS or EAL	10,000	-	-	30,000					

(T) indicates transient receptor; 1. Baseline assumed to be as 2013 background as worst-case; PC=process contribution; Headroom = (NAQS-2*baseline)