

planning
transport
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Appendix 7.5 - WKN Proposed Development Operational Noise Assessment

Wheelabrator Kemsley (K3 Generating Station) and Wheelabrator Kemsley North
(WKN) Waste to Energy Facility DCO

September 2019 -Submission Version

PINS ref: EN010083



Appendix 7.5: WKN Proposed Development Operational Noise Assessment



Residential Receptors

Daytime

Receptor	Usage	Baseline Ambient Noise Level, $L_{Aeq, 16\text{-hours}}$ (dB)	Baseline Background Noise Level, L_{A90} (dB)	Specific Noise Level, $L_{Aeq, 1\text{-hour}}$ (dB)	Rating Level, $L_{A,Tr}$ (dB)	Rating / Background Difference (dB)	Ambient Noise Change (dB)	Significant?
Kemsley Primary School	Edu	47	39	30.8	30.8	-8.2	0.1	No
Kemsley Primary School	Edu	47	39	30.8	30.8	-8.2	0.1	No
Marsh Rise	Res	47	39	33.5	33.5	-5.5	0.2	No
Milton Creek	Rec	47	39	39.1	39.1	0.1	0.7	Yes
Milton Creek	Rec	47	39	34.1	34.1	-4.9	0.2	No
Milton Creek (north)	Rec	47	39	41.4	41.4	2.4	1.1	Yes
Milton Creek (south)	Rec	47	39	39.1	39.1	0.1	0.7	Yes
North of Reedbed	Eco	47	39	35.4	35.4	-3.6	0.3	No
Off Reams Way	Res	47	39	34.0	34.0	-5.0	0.2	No
Reams Way	Res	47	39	33.8	33.8	-5.2	0.2	No
Reams Way N	Res	47	39	33.4	33.4	-5.6	0.2	No
Reams Way S	Res	47	39	33.7	33.7	-5.3	0.2	No
Recreation Way N	Res	47	39	33.5	33.5	-5.5	0.2	No
Recreation Way S	Res	47	39	33.2	33.2	-5.8	0.2	No
Reedbed (100 m from UEU)	Eco	47	39	48.0	48.0	9.0	3.5	Yes
Reedbed (200 m from URC)	Eco	47	39	45.9	45.9	6.9	2.5	Yes
The Swale	Rec	47	39	38.6	38.6	-0.4	0.6	No
Walsby Drive N	Res	47	39	32.0	32.0	-7.0	0.1	No
Walsby Drive S	Res	47	39	32.2	32.2	-6.8	0.1	No

Appendix 7.5: WKN Proposed Development Operational Noise Assessment



Night-time

Receptor	Usage	Baseline Ambient Noise Level, $L_{Aeq, 8\text{-hours}}$ (dB)	Baseline Background Noise Level, L_{A90} (dB)	Specific Noise Level, $L_{Aeq, 5\text{-min}}$ (dB)	Rating Level, $L_{Ar, Tr}$ (dB)	Rating / Background Difference (dB)	Ambient Noise Change (dB)	Significant?
Kemsley Primary School	Edu	45	35	30.8	30.8	-4.2	0.2	No
Kemsley Primary School	Edu	45	35	30.8	30.8	-4.2	0.2	No
Marsh Rise	Res	45	35	33.5	33.5	-1.5	0.3	No
Milton Creek	Rec	45	35	39.1	39.1	4.1	1.0	Yes
Milton Creek	Rec	45	35	34.1	34.1	-0.9	0.3	No
Milton Creek (north)	Rec	45	35	41.4	41.4	6.4	1.6	Yes
Milton Creek (south)	Rec	45	35	39.1	39.1	4.1	1.0	Yes
North of Reedbed	Eco	45	35	35.4	35.4	0.4	0.5	Yes
Off Reams Way	Res	45	35	34.0	34.0	-1.0	0.3	No
Reams Way	Res	45	35	33.8	33.8	-1.2	0.3	No
Reams Way N	Res	45	35	33.4	33.4	-1.6	0.3	No
Reams Way S	Res	45	35	33.7	33.7	-1.3	0.3	No
Recreation Way N	Res	45	35	33.5	33.5	-1.5	0.3	No
Recreation Way S	Res	45	35	33.2	33.2	-1.8	0.3	No
Reedbed (100 m from UEU)	Eco	45	35	48.0	48.0	13.0	4.8	Yes
Reedbed (200 m from URC)	Eco	45	35	45.9	45.9	10.9	3.5	Yes
The Swale	Rec	45	35	38.6	38.6	3.6	0.9	Yes
Walsby Drive N	Res	45	35	32.0	32.0	-3.0	0.2	No
Walsby Drive S	Res	45	35	32.2	32.2	-2.8	0.2	No