

Appendix 6E

Air quality - Full results

This appendix provides calculated concentrations and deposition rates at all relevant modelled receptors for the operational phase. It presents tables of the following results:

- human receptors:
 - ▶ annual mean NO₂;
 - ▶ annual mean PM₁₀;
 - ▶ annual mean PM_{2.5};
- ecological receptors:
 - ▶ annual mean NO_x;
 - ▶ nitrogen (N) deposition;
 - ▶ acid deposition; and
 - ▶ comparison with the acidity critical load function.

Results are given as Process Contribution (PC), i.e. the contribution to the concentration or deposition rate due to the Proposed Scheme, and as Predicted Environmental Concentration (PEC), i.e. the total concentration or deposition rate. Results are compared against the relevant Air Quality Assessment Level (AQAL; objective, standard, critical level, critical load etc.), which may be receptor-specific.

Please note that results are given to several decimal places. This is to enable comparison between receptors and between PC and PEC contributions. The number of decimal places should not be taken as providing any indication of the accuracy of the results.

Table 6E.1 PCs and PECs for annual mean NO₂

Receptor	AQAL (µg m ⁻³)	PC (µg m ⁻³)	PEC (µg m ⁻³)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H01	40	0.11	13.55	0.3%	33.9%	Negligible
H02	40	0.06	17.83	0.1%	44.6%	Negligible
H03	40	0.07	15.72	0.2%	39.3%	Negligible
H04	40	0.07	15.58	0.2%	39.0%	Negligible
H05	40	0.08	15.98	0.2%	40.0%	Negligible
H06	40	0.10	19.66	0.3%	49.2%	Negligible
H07	40	0.15	22.01	0.4%	55.0%	Negligible
H08	40	0.14	19.94	0.4%	49.9%	Negligible
H09	40	0.15	23.87	0.4%	59.7%	Negligible

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H10	40	0.16	22.58	0.4%	56.5%	Negligible
H11	40	0.19	22.19	0.5%	55.5%	Negligible
H12	40	0.18	22.08	0.4%	55.2%	Negligible
H13	40	0.19	22.04	0.5%	55.1%	Negligible
H14	40	0.19	21.89	0.5%	54.7%	Negligible
H15	40	0.20	22.15	0.5%	55.4%	Negligible
H16	40	0.20	22.78	0.5%	57.0%	Negligible
H17	40	0.21	22.75	0.5%	56.9%	Negligible
H18	40	0.22	23.23	0.5%	58.1%	Negligible
H19	40	0.22	24.07	0.5%	60.2%	Negligible
H20	40	0.22	23.53	0.6%	58.8%	Negligible
H21	40	0.24	25.88	0.6%	64.7%	Negligible
H22	40	0.24	27.05	0.6%	67.6%	Negligible
H23	40	0.25	26.54	0.6%	66.4%	Negligible
H24	40	0.25	25.62	0.6%	64.1%	Negligible
H25	40	0.25	24.76	0.6%	61.9%	Negligible
H26	40	0.25	24.63	0.6%	61.6%	Negligible
H27	40	0.26	24.59	0.7%	61.5%	Negligible
H28	40	0.26	24.80	0.7%	62.0%	Negligible
H29	40	0.28	21.85	0.7%	54.6%	Negligible
H30	40	0.28	23.01	0.7%	57.5%	Negligible
H31	40	0.29	24.55	0.7%	61.4%	Negligible
H32	40	0.32	22.53	0.8%	56.3%	Negligible
H33	40	0.31	21.32	0.8%	53.3%	Negligible
H34	40	0.32	21.17	0.8%	52.9%	Negligible
H35	40	0.32	21.67	0.8%	54.2%	Negligible
H36	40	0.35	24.59	0.9%	61.5%	Negligible
H37	40	0.35	24.61	0.9%	61.5%	Negligible
H38	40	0.35	21.83	0.9%	54.6%	Negligible
H39	40	0.35	23.93	0.9%	59.8%	Negligible

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H40	40	0.35	21.99	0.9%	55.0%	Negligible
H41	40	0.36	22.26	0.9%	55.7%	Negligible
H42	40	0.35	23.17	0.9%	57.9%	Negligible
H43	40	0.34	20.12	0.9%	50.3%	Negligible
H44	40	0.35	22.23	0.9%	55.6%	Negligible
H45	40	0.33	20.17	0.8%	50.4%	Negligible
H46	40	0.29	19.89	0.7%	49.7%	Negligible
H47	40	0.28	20.29	0.7%	50.7%	Negligible
H48	40	0.28	21.17	0.7%	52.9%	Negligible
H49	40	0.27	19.23	0.7%	48.1%	Negligible
H50	40	0.27	19.42	0.7%	48.6%	Negligible
H51	40	0.26	19.43	0.6%	48.6%	Negligible
H52	40	0.25	19.02	0.6%	47.6%	Negligible
H53	40	0.23	19.61	0.6%	49.0%	Negligible
H54	40	0.23	19.78	0.6%	49.5%	Negligible
H55	40	0.22	17.99	0.5%	45.0%	Negligible
H56	40	0.22	18.21	0.6%	45.5%	Negligible
H57	40	0.21	18.07	0.5%	45.2%	Negligible
H58	40	0.21	17.47	0.5%	43.7%	Negligible
H59	40	0.34	17.92	0.9%	44.8%	Negligible
H60	40	0.27	17.16	0.7%	42.9%	Negligible
H61	40	0.17	14.69	0.4%	36.7%	Negligible
H62	40	0.19	16.03	0.5%	40.1%	Negligible
H63	40	0.13	19.08	0.3%	47.7%	Negligible
H64	40	0.08	11.21	0.2%	28.0%	Negligible
H65	40	0.08	11.11	0.2%	27.8%	Negligible
H66	40	0.07	10.78	0.2%	27.0%	Negligible
H67	40	0.09	11.09	0.2%	27.7%	Negligible
H68	40	0.29	15.49	0.7%	38.7%	Negligible
H69	40	0.38	16.48	0.9%	41.2%	Negligible

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H70	40	0.09	11.11	0.2%	27.8%	Negligible
H71	40	0.08	10.40	0.2%	26.0%	Negligible
H72	40	0.06	10.08	0.2%	25.2%	Negligible
H73	40	0.05	9.64	0.1%	24.1%	Negligible
H74	40	0.07	10.04	0.2%	25.1%	Negligible
H75	40	0.09	10.64	0.2%	26.6%	Negligible
H76	40	0.42	15.97	1.1%	39.9%	Negligible
H77	40	0.38	15.65	1.0%	39.1%	Negligible
H78	40	0.24	15.22	0.6%	38.1%	Negligible
H79	40	0.10	11.82	0.2%	29.6%	Negligible
H80	40	0.19	15.26	0.5%	38.2%	Negligible
H81	40	0.24	15.95	0.6%	39.9%	Negligible
H82	40	0.11	12.84	0.3%	32.1%	Negligible
H83	40	0.66	21.99	1.7%	55.0%	Negligible
H84	40	0.29	15.86	0.7%	39.7%	Negligible
H85	40	0.32	16.31	0.8%	40.8%	Negligible
H86	40	0.20	15.05	0.5%	37.6%	Negligible
H87	40	0.40	18.06	1.0%	45.2%	Negligible
H88	40	0.27	14.80	0.7%	37.0%	Negligible
H89	40	0.43	17.35	1.1%	43.4%	Negligible
H90	40	0.21	14.80	0.5%	37.0%	Negligible
H91	40	0.08	10.62	0.2%	26.6%	Negligible
H92	40	0.11	10.21	0.3%	25.5%	Negligible
H93	40	0.28	12.18	0.7%	30.5%	Negligible
H94	40	0.10	17.02	0.2%	42.6%	Negligible
H95	40	0.12	16.73	0.3%	41.8%	Negligible
H96	40	0.12	20.34	0.3%	50.9%	Negligible
H97	40	0.10	18.02	0.2%	45.1%	Negligible
H98	40	0.47	18.96	1.2%	47.4%	Negligible
H99	40	0.05	21.31	0.1%	53.3%	Negligible

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
S01*	N/A	0.10	20.48	N/A	N/A	N/A
S02*	N/A	0.11	17.72	N/A	N/A	N/A
S03*	N/A	0.54	21.97	N/A	N/A	N/A
S04*	N/A	0.50	21.69	N/A	N/A	N/A
S05*	N/A	0.36	19.62	N/A	N/A	N/A
S06*	N/A	0.36	24.26	N/A	N/A	N/A
S07*	N/A	0.37	32.08	N/A	N/A	N/A
S08*	N/A	0.38	35.30	N/A	N/A	N/A
S09*	N/A	0.36	34.63	N/A	N/A	N/A
S10*	N/A	0.37	30.64	N/A	N/A	N/A
S11*	N/A	0.38	29.42	N/A	N/A	N/A
S12*	N/A	0.33	15.07	N/A	N/A	N/A
S13*	N/A	0.28	16.18	N/A	N/A	N/A

* Results for receptors S01–S13 are presented for comparison with the short-term (hourly) AQAL only. The annual mean AQAL does not apply at these receptors.

Table 6E.2 PCs and PECs for annual mean PM₁₀

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H01	40	0.03	16.52	0.1%	41.3%	Negligible
H02	40	0.01	16.43	0.0%	41.1%	Negligible
H03	40	0.01	15.87	0.0%	39.7%	Negligible
H04	40	0.01	15.83	0.0%	39.6%	Negligible
H05	40	0.01	16.19	0.0%	40.5%	Negligible
H06	40	0.02	17.48	0.0%	43.7%	Negligible
H07	40	0.01	15.96	0.0%	39.9%	Negligible
H08	40	0.01	15.55	0.0%	38.9%	Negligible
H09	40	0.01	16.39	0.0%	41.0%	Negligible
H10	40	0.01	16.27	0.0%	40.7%	Negligible
H11	40	0.01	16.15	0.0%	40.4%	Negligible
H12	40	0.01	16.10	0.0%	40.3%	Negligible

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H13	40	0.01	16.07	0.0%	40.2%	Negligible
H14	40	0.01	16.00	0.0%	40.0%	Negligible
H15	40	0.01	16.06	0.0%	40.1%	Negligible
H16	40	0.01	16.22	0.0%	40.6%	Negligible
H17	40	0.01	16.17	0.0%	40.4%	Negligible
H18	40	0.01	16.27	0.0%	40.7%	Negligible
H19	40	0.01	16.43	0.0%	41.1%	Negligible
H20	40	0.01	16.19	0.0%	40.5%	Negligible
H21	40	0.02	16.86	0.0%	42.1%	Negligible
H22	40	0.02	17.27	0.0%	43.2%	Negligible
H23	40	0.02	17.10	0.0%	42.8%	Negligible
H24	40	0.02	16.81	0.0%	42.0%	Negligible
H25	40	0.02	16.53	0.0%	41.3%	Negligible
H26	40	0.02	16.49	0.0%	41.2%	Negligible
H27	40	0.02	16.46	0.0%	41.2%	Negligible
H28	40	0.02	16.50	0.0%	41.3%	Negligible
H29	40	0.02	16.32	0.0%	40.8%	Negligible
H30	40	0.02	16.66	0.0%	41.6%	Negligible
H31	40	0.02	17.13	0.1%	42.8%	Negligible
H32	40	0.02	16.43	0.1%	41.1%	Negligible
H33	40	0.02	16.07	0.1%	40.2%	Negligible
H34	40	0.02	16.03	0.1%	40.1%	Negligible
H35	40	0.02	16.17	0.1%	40.4%	Negligible
H36	40	0.03	17.07	0.1%	42.7%	Negligible
H37	40	0.03	17.07	0.1%	42.7%	Negligible
H38	40	0.03	15.80	0.1%	39.5%	Negligible
H39	40	0.03	16.46	0.1%	41.1%	Negligible
H40	40	0.03	15.86	0.1%	39.6%	Negligible
H41	40	0.03	15.94	0.1%	39.9%	Negligible
H42	40	0.03	16.24	0.1%	40.6%	Negligible

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H43	40	0.02	15.33	0.1%	38.3%	Negligible
H44	40	0.03	15.97	0.1%	39.9%	Negligible
H45	40	0.02	15.31	0.1%	38.3%	Negligible
H46	40	0.02	15.48	0.0%	38.7%	Negligible
H47	40	0.02	15.66	0.0%	39.1%	Negligible
H48	40	0.02	15.95	0.0%	39.9%	Negligible
H49	40	0.02	15.36	0.0%	38.4%	Negligible
H50	40	0.02	15.43	0.0%	38.6%	Negligible
H51	40	0.02	15.44	0.0%	38.6%	Negligible
H52	40	0.01	15.34	0.0%	38.3%	Negligible
H53	40	0.01	15.56	0.0%	38.9%	Negligible
H54	40	0.01	15.62	0.0%	39.1%	Negligible
H55	40	0.01	15.08	0.0%	37.7%	Negligible
H56	40	0.01	15.15	0.0%	37.9%	Negligible
H57	40	0.01	15.11	0.0%	37.8%	Negligible
H58	40	0.01	14.92	0.0%	37.3%	Negligible
H59	40	0.02	14.69	0.1%	36.7%	Negligible
H60	40	0.01	14.66	0.0%	36.6%	Negligible
H61	40	0.00	15.07	0.0%	37.7%	Negligible
H62	40	0.00	15.43	0.0%	38.6%	Negligible
H63	40	0.00	16.94	0.0%	42.4%	Negligible
H64	40	0.00	14.64	0.0%	36.6%	Negligible
H65	40	0.00	14.64	0.0%	36.6%	Negligible
H66	40	0.00	14.65	0.0%	36.6%	Negligible
H67	40	0.00	14.67	0.0%	36.7%	Negligible
H68	40	0.00	14.51	0.0%	36.3%	Negligible
H69	40	0.00	14.49	0.0%	36.2%	Negligible
H70	40	0.00	14.40	0.0%	36.0%	Negligible
H71	40	0.00	14.37	0.0%	35.9%	Negligible
H72	40	0.00	14.36	0.0%	35.9%	Negligible

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H73	40	0.00	14.64	0.0%	36.6%	Negligible
H74	40	0.00	14.66	0.0%	36.6%	Negligible
H75	40	0.00	14.23	0.0%	35.6%	Negligible
H76	40	0.00	14.76	0.0%	36.9%	Negligible
H77	40	0.00	14.77	0.0%	36.9%	Negligible
H78	40	0.00	14.05	0.0%	35.1%	Negligible
H79	40	0.00	14.43	0.0%	36.1%	Negligible
H80	40	0.00	14.81	0.0%	37.0%	Negligible
H81	40	0.00	14.85	0.0%	37.1%	Negligible
H82	40	0.02	16.72	0.1%	41.8%	Negligible
H83	40	0.16	20.12	0.4%	50.3%	Negligible
H84	40	0.07	18.13	0.2%	45.3%	Negligible
H85	40	0.08	18.28	0.2%	45.7%	Negligible
H86	40	0.05	17.63	0.1%	44.1%	Negligible
H87	40	0.10	18.58	0.2%	46.5%	Negligible
H88	40	0.06	17.74	0.2%	44.3%	Negligible
H89	40	0.10	18.52	0.3%	46.3%	Negligible
H90	40	0.06	17.98	0.2%	45.0%	Negligible
H91	40	0.02	17.02	0.0%	42.5%	Negligible
H92	40	0.02	16.85	0.1%	42.1%	Negligible
H93	40	0.07	17.66	0.2%	44.1%	Negligible
H94	40	0.01	16.43	0.0%	41.1%	Negligible
H95	40	0.01	16.27	0.0%	40.7%	Negligible
H96	40	0.01	17.46	0.0%	43.7%	Negligible
H97	40	0.01	16.71	0.0%	41.8%	Negligible
H98	40	0.12	19.12	0.3%	47.8%	Negligible
H99	40	0.01	17.84	0.0%	44.6%	Negligible

Table 6E.3 PCs and PECs for annual mean PM_{2.5}

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H01	25	0.01	10.22	0.1%	40.9%	Negligible
H02	25	0.01	10.63	0.0%	42.5%	Negligible
H03	25	0.01	10.31	0.0%	41.2%	Negligible
H04	25	0.01	10.29	0.0%	41.2%	Negligible
H05	25	0.01	10.81	0.0%	43.2%	Negligible
H06	25	0.01	11.52	0.0%	46.1%	Negligible
H07	25	0.01	10.57	0.0%	42.3%	Negligible
H08	25	0.01	10.33	0.0%	41.3%	Negligible
H09	25	0.01	10.82	0.0%	43.3%	Negligible
H10	25	0.01	10.75	0.0%	43.0%	Negligible
H11	25	0.01	10.69	0.0%	42.8%	Negligible
H12	25	0.01	10.67	0.0%	42.7%	Negligible
H13	25	0.01	10.65	0.0%	42.6%	Negligible
H14	25	0.01	10.62	0.0%	42.5%	Negligible
H15	25	0.01	10.65	0.0%	42.6%	Negligible
H16	25	0.01	10.75	0.0%	43.0%	Negligible
H17	25	0.01	10.72	0.0%	42.9%	Negligible
H18	25	0.01	10.78	0.0%	43.1%	Negligible
H19	25	0.01	10.88	0.0%	43.5%	Negligible
H20	25	0.01	10.75	0.0%	43.0%	Negligible
H21	25	0.01	11.14	0.0%	44.6%	Negligible
H22	25	0.01	11.38	0.0%	45.5%	Negligible
H23	25	0.01	11.28	0.0%	45.1%	Negligible
H24	25	0.01	11.12	0.0%	44.5%	Negligible
H25	25	0.01	10.96	0.0%	43.8%	Negligible
H26	25	0.01	10.94	0.0%	43.8%	Negligible
H27	25	0.01	10.93	0.0%	43.7%	Negligible
H28	25	0.01	10.95	0.1%	43.8%	Negligible
H29	25	0.01	11.05	0.1%	44.2%	Negligible

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H30	25	0.01	11.24	0.1%	45.0%	Negligible
H31	25	0.01	11.51	0.1%	46.0%	Negligible
H32	25	0.02	11.13	0.1%	44.5%	Negligible
H33	25	0.02	10.92	0.1%	43.7%	Negligible
H34	25	0.02	10.90	0.1%	43.6%	Negligible
H35	25	0.02	10.98	0.1%	43.9%	Negligible
H36	25	0.02	11.49	0.1%	45.9%	Negligible
H37	25	0.02	11.49	0.1%	46.0%	Negligible
H38	25	0.02	10.64	0.1%	42.5%	Negligible
H39	25	0.02	11.01	0.1%	44.0%	Negligible
H40	25	0.02	10.67	0.1%	42.7%	Negligible
H41	25	0.02	10.71	0.1%	42.9%	Negligible
H42	25	0.02	10.88	0.1%	43.5%	Negligible
H43	25	0.02	10.36	0.1%	41.4%	Negligible
H44	25	0.02	10.72	0.1%	42.9%	Negligible
H45	25	0.02	10.35	0.1%	41.4%	Negligible
H46	25	0.01	10.41	0.1%	41.6%	Negligible
H47	25	0.01	10.50	0.1%	42.0%	Negligible
H48	25	0.01	10.66	0.1%	42.6%	Negligible
H49	25	0.01	10.32	0.0%	41.3%	Negligible
H50	25	0.01	10.36	0.0%	41.4%	Negligible
H51	25	0.01	10.36	0.0%	41.5%	Negligible
H52	25	0.01	10.30	0.0%	41.2%	Negligible
H53	25	0.01	10.42	0.0%	41.7%	Negligible
H54	25	0.01	10.45	0.0%	41.8%	Negligible
H55	25	0.01	10.14	0.0%	40.6%	Negligible
H56	25	0.01	10.18	0.0%	40.7%	Negligible
H57	25	0.01	10.15	0.0%	40.6%	Negligible
H58	25	0.00	10.05	0.0%	40.2%	Negligible
H59	25	0.02	9.98	0.1%	39.9%	Negligible



Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H60	25	0.01	9.93	0.0%	39.7%	Negligible
H61	25	0.00	9.51	0.0%	38.0%	Negligible
H62	25	0.00	9.71	0.0%	38.8%	Negligible
H63	25	0.00	10.37	0.0%	41.5%	Negligible
H64	25	0.00	9.08	0.0%	36.3%	Negligible
H65	25	0.00	9.08	0.0%	36.3%	Negligible
H66	25	0.00	9.02	0.0%	36.1%	Negligible
H67	25	0.00	9.03	0.0%	36.1%	Negligible
H68	25	0.00	9.19	0.0%	36.7%	Negligible
H69	25	0.00	9.18	0.0%	36.7%	Negligible
H70	25	0.00	8.93	0.0%	35.7%	Negligible
H71	25	0.00	8.91	0.0%	35.6%	Negligible
H72	25	0.00	8.90	0.0%	35.6%	Negligible
H73	25	0.00	8.99	0.0%	36.0%	Negligible
H74	25	0.00	9.00	0.0%	36.0%	Negligible
H75	25	0.00	8.95	0.0%	35.8%	Negligible
H76	25	0.00	9.19	0.0%	36.8%	Negligible
H77	25	0.00	9.19	0.0%	36.8%	Negligible
H78	25	0.00	9.10	0.0%	36.4%	Negligible
H79	25	0.00	9.11	0.0%	36.4%	Negligible
H80	25	0.00	9.59	0.0%	38.4%	Negligible
H81	25	0.00	9.62	0.0%	38.5%	Negligible
H82	25	0.01	10.89	0.1%	43.6%	Negligible
H83	25	0.09	12.76	0.4%	51.0%	Negligible
H84	25	0.04	11.66	0.2%	46.7%	Negligible
H85	25	0.04	11.74	0.2%	47.0%	Negligible
H86	25	0.03	11.35	0.1%	45.4%	Negligible
H87	25	0.05	11.87	0.2%	47.5%	Negligible
H88	25	0.04	11.24	0.1%	44.9%	Negligible
H89	25	0.06	11.67	0.2%	46.7%	Negligible

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
H90	25	0.04	11.26	0.1%	45.1%	Negligible
H91	25	0.01	10.51	0.0%	42.1%	Negligible
H92	25	0.01	10.34	0.1%	41.3%	Negligible
H93	25	0.04	10.65	0.1%	42.6%	Negligible
H94	25	0.00	10.95	0.0%	43.8%	Negligible
H95	25	0.00	10.86	0.0%	43.4%	Negligible
H96	25	0.00	11.52	0.0%	46.1%	Negligible
H97	25	0.00	11.11	0.0%	44.4%	Negligible
H98	25	0.06	12.21	0.3%	48.8%	Negligible
H99	25	0.00	11.77	0.0%	47.1%	Negligible

Table 6E.4 PCs and PECs for annual mean NO_x

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
E01	30	0.23	20.25	0.8%	67.5%	Not significant
E02	30	0.15	14.15	0.5%	47.2%	Not significant
E03	30	0.10	12.16	0.3%	40.5%	Not significant
E04	30	0.10	12.09	0.3%	40.3%	Not significant
E05	30	2.50	44.20	8.3%	147.3%	Not significant
E06	30	2.35	42.41	7.8%	141.4%	Not significant
E07	30	1.05	27.01	3.5%	90.0%	Not significant
E08	30	1.00	26.70	3.3%	89.0%	Not significant
E09	30	1.60	34.24	5.3%	114.1%	Not significant
E10	30	0.09	12.26	0.3%	40.9%	Not significant
E11	30	0.09	12.19	0.3%	40.6%	Not significant
E12	30	0.23	15.59	0.8%	52.0%	Not significant
E13	30	0.23	15.58	0.8%	51.9%	Not significant
E14	30	0.17	14.76	0.6%	49.2%	Not significant
E15	30	0.10	12.60	0.3%	42.0%	Not significant

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
E16	30	0.10	12.54	0.3%	41.8%	Not significant
E17	30	0.09	12.39	0.3%	41.3%	Not significant
E18	30	0.11	13.62	0.4%	45.4%	Not significant
E19	30	0.16	15.73	0.5%	52.4%	Not significant
E20	30	0.15	15.62	0.5%	52.1%	Not significant
E21	30	0.08	12.79	0.3%	42.6%	Not significant
E22	30	0.07	12.53	0.2%	41.8%	Not significant
E23	30	1.87	36.91	6.2%	123.0%	Not significant
E24	30	0.08	10.97	0.3%	36.6%	Not significant
E25	30	0.15	12.54	0.5%	41.8%	Not significant
E26	30	0.04	10.44	0.1%	34.8%	Not significant
E27	30	0.39	63.11	1.3%	210.4%	Not significant
E28	30	0.13	19.27	0.4%	64.2%	Not significant
E29	30	0.11	17.11	0.4%	57.0%	Not significant
E30	30	0.11	14.71	0.4%	49.0%	Not significant
E31	30	0.12	20.97	0.4%	69.9%	Not significant
E32	30	0.12	21.61	0.4%	72.0%	Not significant
E33	30	0.18	31.37	0.6%	104.6%	Not significant
E34	30	0.13	23.44	0.4%	78.1%	Not significant
E35	30	0.12	21.61	0.4%	72.0%	Not significant
E36	30	0.12	20.97	0.4%	69.9%	Not significant
E37	30	0.11	14.71	0.4%	49.0%	Not significant
E38	30	0.15	19.30	0.5%	64.3%	Not significant
E39	30	0.48	88.07	1.6%	293.6%	Not significant
E40	30	0.24	45.07	0.8%	150.2%	Not significant
E41	30	0.25	40.83	0.8%	136.1%	Not significant
E42	30	0.14	25.33	0.5%	84.4%	Not significant
E43	30	0.25	42.70	0.8%	142.3%	Not significant
E44	30	0.25	46.94	0.8%	156.5%	Not significant
E45	30	0.13	37.55	0.4%	125.2%	Not significant

Receptor	AQAL ($\mu\text{g m}^{-3}$)	PC ($\mu\text{g m}^{-3}$)	PEC ($\mu\text{g m}^{-3}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
E46	30	0.12	22.02	0.4%	73.4%	Not significant

Table 6E.5 PCs and PECs for nitrogen deposition

Receptor	AQAL ($\text{kg N ha}^{-1} \text{y}^{-1}$)	PC ($\text{kg N ha}^{-1} \text{y}^{-1}$)	PEC ($\text{kg N ha}^{-1} \text{y}^{-1}$)	PC (% of AQAL)	PEC (% of AQAL)	Impact
E01	10.00	0.04	31.12	0.4%	311.2%	Not significant
E02	10.00	0.02	31.10	0.2%	311.0%	Not significant
E03	10.00	0.02	29.42	0.2%	294.2%	Not significant
E04	10.00	0.02	29.42	0.2%	294.2%	Not significant
E05	10.00	0.37	31.45	3.7%	314.5%	Not significant
E06	10.00	0.35	31.43	3.5%	314.3%	Not significant
E07	10.00	0.16	31.24	1.6%	312.4%	Not significant
E08	10.00	0.16	31.24	1.6%	312.4%	Not significant
E09	10.00	0.24	31.32	2.4%	313.2%	Not significant
E10	10.00	0.02	31.10	0.2%	311.0%	Not significant
E11	10.00	0.02	31.10	0.2%	311.0%	Not significant
E12	10.00	0.04	31.12	0.4%	311.2%	Not significant
E13	10.00	0.03	31.11	0.3%	311.1%	Not significant
E14	10.00	0.03	31.11	0.3%	311.1%	Not significant
E15	10.00	0.02	30.82	0.2%	308.2%	Not significant
E16	10.00	0.02	30.82	0.2%	308.2%	Not significant
E17	10.00	0.02	30.82	0.2%	308.2%	Not significant
E18	10.00	0.02	30.82	0.2%	308.2%	Not significant
E19	10.00	0.03	30.83	0.3%	308.3%	Not significant
E20	10.00	0.02	30.82	0.2%	308.2%	Not significant
E21	10.00	0.02	30.82	0.2%	308.2%	Not significant
E22	10.00	0.01	30.81	0.1%	308.1%	Not significant
E23	10.00	0.27	32.47	2.7%	324.7%	Not significant
E24	10.00	0.01	32.21	0.1%	322.1%	Not significant
E25	10.00	0.03	32.23	0.3%	322.3%	Not significant

Receptor	AQAL (kg N ha ⁻¹ y ⁻¹)	PC (kg N ha ⁻¹ y ⁻¹)	PEC (kg N ha ⁻¹ y ⁻¹)	PC (% of AQAL)	PEC (% of AQAL)	Impact
E26	10.00	0.01	32.21	0.1%	322.1%	Not significant
E27	10.00	0.05	32.25	0.5%	322.5%	Not significant
E28	10.00	0.02	30.82	0.2%	308.2%	Not significant
E29	10.00	0.02	30.82	0.2%	308.2%	Not significant
E30	10.00	0.02	32.22	0.2%	322.2%	Not significant
E31	10.00	0.02	32.22	0.2%	322.2%	Not significant
E32	10.00	0.02	32.22	0.2%	322.2%	Not significant
E33	10.00	0.03	32.23	0.3%	322.3%	Not significant
E34	10.00	0.02	32.22	0.2%	322.2%	Not significant
E35	10.00	0.02	32.22	0.2%	322.2%	Not significant
E36	10.00	0.02	32.22	0.2%	322.2%	Not significant
E37	10.00	0.02	32.22	0.2%	322.2%	Not significant
E38	10.00	0.03	32.23	0.3%	322.3%	Not significant
E39	10.00	0.05	32.25	0.5%	322.5%	Not significant
E40	10.00	0.03	32.23	0.3%	322.3%	Not significant
E41	10.00	0.03	32.23	0.3%	322.3%	Not significant
E42	10.00	0.02	32.22	0.2%	322.2%	Not significant
E43	10.00	0.03	32.23	0.3%	322.3%	Not significant
E44	10.00	0.03	32.23	0.3%	322.3%	Not significant
E45	10.00	0.02	32.22	0.2%	322.2%	Not significant
E46	10.00	0.02	32.22	0.2%	322.2%	Not significant

Table 6E.6 Acid deposition rates

Receptor	Sulphur PC (keq ha ⁻¹ y ⁻¹)	Nitrogen PC (keq ha ⁻¹ y ⁻¹)	Sulphur background (keq ha ⁻¹ y ⁻¹)	Nitrogen background (keq ha ⁻¹ y ⁻¹)
E01	0	0.0027	0.22	2.22
E02	0	0.0016	0.22	2.22
E03	0	0.0016	0.18	2.10
E04	0	0.0016	0.18	2.10
E05	0	0.0265	0.22	2.22



Receptor	Sulphur PC (keq ha ⁻¹ y ⁻¹)	Nitrogen PC (keq ha ⁻¹ y ⁻¹)	Sulphur background (keq ha ⁻¹ y ⁻¹)	Nitrogen background (keq ha ⁻¹ y ⁻¹)
E06	0	0.0249	0.22	2.22
E07	0	0.0115	0.22	2.22
E08	0	0.0111	0.22	2.22
E09	0	0.0173	0.22	2.22
E10	0	0.0014	0.22	2.22
E11	0	0.0014	0.22	2.22
E12	0	0.0027	0.22	2.22
E13	0	0.0025	0.22	2.22
E14	0	0.0021	0.22	2.22
E15	0	0.0016	0.19	2.20
E16	0	0.0014	0.19	2.20
E17	0	0.0014	0.19	2.20
E18	0	0.0012	0.19	2.20
E19	0	0.0019	0.19	2.20
E20	0	0.0016	0.19	2.20
E21	0	0.0012	0.19	2.20
E22	0	0.0010	0.19	2.20
E23	0	0.0191	0.20	2.30
E24	0	0.0008	0.20	2.30
E25	0	0.0019	0.20	2.30
E26	0	0.0004	0.20	2.30
E27	0	0.0035	0.20	2.30
E28	0	0.0014	0.19	2.20
E29	0	0.0012	0.19	2.20
E30	0	0.0014	0.20	2.30
E31	0	0.0012	0.20	2.30
E32	0	0.0014	0.20	2.30
E33	0	0.0019	0.20	2.30
E34	0	0.0014	0.20	2.30

Receptor	Sulphur PC (keq ha ⁻¹ y ⁻¹)	Nitrogen PC (keq ha ⁻¹ y ⁻¹)	Sulphur background (keq ha ⁻¹ y ⁻¹)	Nitrogen background (keq ha ⁻¹ y ⁻¹)
E35	0	0.0014	0.20	2.30
E36	0	0.0012	0.20	2.30
E37	0	0.0014	0.20	2.30
E38	0	0.0019	0.20	2.30
E39	0	0.0039	0.20	2.30
E40	0	0.0023	0.20	2.30
E41	0	0.0025	0.20	2.30
E42	0	0.0014	0.20	2.30
E43	0	0.0025	0.20	2.30
E44	0	0.0023	0.20	2.30
E45	0	0.0014	0.20	2.30
E46	0	0.0014	0.20	2.30

Table 6E.8 Acid deposition: comparison with AQAL (critical load function)

Receptor	Exceedance (keq ha ⁻¹ y ⁻¹)			Percent of AQAL			Impact
	PC	Background	PEC	PC	Background	PEC	
E01	No exceedance	0.51	0.51	0.1	126.5	126.6	Not significant
E02	No exceedance	0.52	0.52	0.1	126.8	126.8	Not significant
E03	No exceedance	No exceedance	No exceedance	0.0	20.8	20.8	Not significant
E04	No exceedance	No exceedance	No exceedance	0.0	20.8	20.8	Not significant
E05	No exceedance	0.51	0.54	1.4	126.6	127.9	Not significant
E06	No exceedance	0.51	0.54	1.3	126.6	127.8	Not significant
E07	No exceedance	0.51	0.52	0.6	126.6	127.2	Not significant
E08	No exceedance	0.51	0.52	0.6	126.6	127.1	Not significant
E09	No exceedance	0.51	0.53	0.9	126.6	127.5	Not significant
E10	No exceedance	0.51	0.52	0.1	126.7	126.8	Not significant
E11	No exceedance	0.51	0.52	0.1	126.7	126.8	Not significant
E12	No exceedance	0.51	0.51	0.1	126.5	126.6	Not significant
E13	No exceedance	0.51	0.51	0.1	126.5	126.6	Not significant

Receptor	Exceedance (keq ha ⁻¹ y ⁻¹)			Percent of AQAL			Impact
	PC	Background	PEC	PC	Background	PEC	
E14	No exceedance	0.51	0.51	0.1	126.5	126.6	Not significant
E15	No exceedance	0.47	0.47	0.1	124.5	124.6	Not significant
E16	No exceedance	0.47	0.47	0.1	124.5	124.6	Not significant
E17	No exceedance	0.47	0.47	0.1	124.5	124.6	Not significant
E18	No exceedance	0.47	0.47	0.1	124.3	124.4	Not significant
E19	No exceedance	0.46	0.47	0.1	124.1	124.2	Not significant
E20	No exceedance	0.46	0.47	0.1	124.1	124.2	Not significant
E21	No exceedance	0.46	0.46	0.1	123.9	124.0	Not significant
E22	No exceedance	0.46	0.46	0.1	123.7	123.8	Not significant
E23	No exceedance	0.52	0.54	1.0	126.5	127.5	Not significant
E24	No exceedance	0.53	0.53	0.0	126.6	126.6	Not significant
E25	No exceedance	0.52	0.53	0.1	126.5	126.6	Not significant
E26	No exceedance	0.53	0.53	0.0	126.6	126.7	Not significant
E27	No exceedance	0.53	0.53	0.2	126.6	126.8	Not significant
E28	No exceedance	0.46	0.46	0.1	123.9	124.0	Not significant
E29	No exceedance	0.46	0.46	0.1	123.9	124.0	Not significant
E30	No exceedance	0.52	0.53	0.1	126.5	126.6	Not significant
E31	No exceedance	0.53	0.53	0.1	126.6	126.7	Not significant
E32	No exceedance	0.53	0.53	0.1	126.6	126.7	Not significant
E33	No exceedance	0.53	0.53	0.1	126.6	126.7	Not significant
E34	No exceedance	0.53	0.53	0.1	126.6	126.7	Not significant
E35	No exceedance	0.53	0.53	0.1	126.6	126.7	Not significant
E36	No exceedance	0.53	0.53	0.1	126.6	126.7	Not significant
E37	No exceedance	0.52	0.53	0.1	126.5	126.6	Not significant
E38	No exceedance	0.52	0.53	0.1	126.5	126.6	Not significant
E39	No exceedance	0.53	0.53	0.2	126.6	126.8	Not significant
E40	No exceedance	0.53	0.53	0.1	126.6	126.8	Not significant
E41	No exceedance	0.53	0.53	0.1	126.6	126.8	Not significant
E42	No exceedance	0.53	0.53	0.1	126.6	126.7	Not significant



Receptor	Exceedance (keq ha ⁻¹ y ⁻¹)			Percent of AQAL			Impact
	PC	Background	PEC	PC	Background	PEC	
E43	No exceedance	0.53	0.53	0.1	126.6	126.8	Not significant
E44	No exceedance	0.53	0.53	0.1	126.6	126.8	Not significant
E45	No exceedance	0.53	0.53	0.1	126.6	126.7	Not significant
E46	No exceedance	0.53	0.53	0.1	126.6	126.7	Not significant