

Air Quality Effects on Statutory Designated Sites

NO_x Concentrations Statutory Conservation Sites

Designation	Site Name	Background	Maximum	Maximum	EQS	Max PC as	Breach	Max PC as %
		Concentration	PC NO _x from SEP	PEC (existing plus SEP)		% of EQS	of EQS	of Background
SSSI	Abbots Moss	14.00	0.04	14.04	30	0.13	No	0.28
SSSI	Bagmere	17.60	0.05	17.65	30	0.16	No	0.26
SSSI	Beechmill Wood & Pasture	16.40	0.02	16.42	30	0.08	No	0.14
SSSI	Black Lake, Delamere	12.50	0.04	12.54	30	0.12	No	0.29
SSSI	Dunham Park	27.50	0.19	27.69	30	0.63	No	0.68
SSSI	Flaxmere Moss	13.10	0.04	13.14	30	0.13	No	0.30
SSSI	Gleads Moss	14.20	0.09	14.29	30	0.30	No	0.64
SSSI	Hatch Mere	13.10	0.04	13.14	30	0.13	No	0.31
SSSI	Hatton's Hey Wood, Whittle's Corner & Bank Rough	17.50	0.03	17.53	30	0.09	No	0.16
SSSI	Holly Banks	15.10	0.06	15.16	30	0.20	No	0.41
SSSI	Linmer Moss	12.30	0.04	12.34	30	0.12	No	0.30
SSSI	Little Budworth Common	11.80	0.03	11.83	30	0.12	No	0.30
SSSI	Pettypool Brook Valley	14.90	0.04	14.94	30	0.15	No	0.29
SSSI	Plumley Lime Beds	21.20	0.72	21.92	30	2.40	No	3.40
SSSI	Tabley Mere	33.10	0.19	33.29	30	0.63	Yes (existing without SEP)	0.57
SSSI	Tatton Meres	23.40	0.17	23.57	30	0.58	No	0.75
SSSI	Warburton's Wood & Well Wood	16.10	0.03	16.13	30	0.09	No	0.17
SSSI	Wettenhall & Darnhall Woods	12.20	0.04	12.24	30	0.13	No	0.33
SSSI	Wimboldsley Wood	14.80	0.04	14.84	30	0.13	No	0.27
SSSI	Witton Lime Beds	22.20	0.21	22.41	30	0.69	No	0.93
SAC	Oak Mere	13.40	0.03	13.43	30	0.11	No	0.24
SAC	West Midland Mosses	14.00	0.04	14.04	30	0.13	No	0.28
RAMSAR	Midland Meres & Mosses Phase 1	23.40	0.30	23.70	30	1.00	No	1.28
RAMSAR	Midland Meres & Mosses Phase 2	14.00	0.04	14.04	30	0.13	No	0.27

SO₂ Concentrations Statutory Conservation Sites

Designation	Site Name	Background	Maximum	Maximum	EQS	Max PC as	Breach	Max PC as %
		Concentration	PC SO ₂ from SEP	PEC (existing plus SEP)		% of EQS	of EQS	of Background
SSSI	Abbots Moss	2.7	0.01	2.71	20	0.048	No	0.36
SSSI	Bagmere	2.7	0.01	2.71	20	0.058	No	0.43
SSSI	Beechmill Wood & Pasture	3.3	0.01	3.31	20	0.028	No	0.17
SSSI	Black Lake, Delamere	1.7	0.01	1.71	20	0.045	No	0.54
SSSI	Dunham Park	2.8	0.05	2.85	20	0.235	No	1.68
SSSI	Flaxmere Moss	2.1	0.01	2.11	20	0.050	No	0.47
SSSI	Gleads Moss	1.7	0.02	1.72	20	0.113	No	1.33
SSSI	Hatch Mere	2.1	0.01	2.11	20	0.051	No	0.48
SSSI	Hatton's Hey Wood, Whittle's Corner & Bank Rough	2.1	0.01	2.11	20	0.035	No	0.34
SSSI	Holly Banks	1.7	0.02	1.72	20	0.077	No	0.90
SSSI	Linmer Moss	1.7	0.01	1.71	20	0.047	No	0.55
SSSI	Little Budworth Common	12.5	0.01	12.51	20	0.044	No	0.07
SSSI	Pettypool Brook Valley	3.8	0.01	3.81	20	0.054	No	0.29
SSSI	Plumley Lime Beds	2.3	0.18	2.48	20	0.900	No	7.82
SSSI	Tabley Mere	2.8	0.05	2.85	20	0.236	No	1.69
SSSI	Tatton Meres	2.8	0.04	2.84	20	0.219	No	1.56
SSSI	Warburton's Wood & Well Wood	2.1	0.01	2.11	20	0.033	No	0.32
SSSI	Wettenhall & Darnhall Woods	1.5	0.01	1.51	20	0.050	No	0.67
SSSI	Wimboldsley Wood	1.5	0.01	1.51	20	0.050	No	0.66
SSSI	Witton Lime Beds	4.2	0.05	4.25	20	0.258	No	1.23
SAC	Oak Mere	1.9	0.01	1.91	20	0.040	No	0.42
SAC	West Midland Mosses	2.7	0.01	2.71	20	0.048	No	0.36
RAMSAR	Midland Meres & Mosses Phase 1	2.8	0.07	2.87	20	0.374	No	2.67
RAMSAR	Midland Meres & Mosses Phase 2	2.7	0.01	2.71	20	0.047	No	0.35

NH₃ Concentrations Statutory Conservation Sites

Designation	Site Name	Background	Maximum	Maximum	EQS	Max PC as	Breach	Max PC as %
		Concentration	PC NH ₃ from SEP	PEC (existing plus SEP)		% of EQS	of EQS	of Background
SSSI	Abbots Moss	3.40	0.001	3.40	3	0.03	Yes (existing without SEP)	0.03
SSSI	Bagmere	3.80	0.001	3.80	3	0.04	Yes (existing without SEP)	0.03
SSSI	Beechmill Wood & Pasture	6.30	0.001	6.30	3	0.02	Yes (existing without SEP)	0.01
SSSI	Black Lake, Delamere	3.80	0.001	3.80	3	0.03	Yes (existing without SEP)	0.02
SSSI	Dunham Park	2.70	0.005	2.70	3	0.16	No	0.17
SSSI	Flaxmere Moss	2.70	0.001	2.70	3	0.03	No	0.04
SSSI	Gleads Moss	2.90	0.002	2.90	3	0.08	No	0.08
SSSI	Hatch Mere	2.70	0.001	2.70	3	0.03	No	0.04
SSSI	Hatton's Hey Wood, Whittle's Corner & Bank Rough	7.10	0.001	7.10	3	0.02	Yes (existing without SEP)	0.01
SSSI	Holly Banks	2.90	0.002	2.90	3	0.05	No	0.05
SSSI	Linmer Moss	3.80	0.001	3.80	3	0.03	Yes (existing without SEP)	0.02
SSSI	Little Budworth Common	3.30	0.001	3.30	3	0.03	Yes (existing without SEP)	0.03
SSSI	Pettypool Brook Valley	3.80	0.001	3.80	3	0.04	Yes (existing without SEP)	0.03
SSSI	Plumley Lime Beds	3.50	0.018	3.52	3	0.60	Yes (existing without SEP)	0.51
SSSI	Tabley Mere	3.00	0.005	3.00	3	0.16	Yes (existing without SEP)	0.16
SSSI	Tatton Meres	2.50	0.004	2.50	3	0.15	No	0.17
SSSI	Warburton's Wood & Well Wood	7.10	0.001	7.10	3	0.02	Yes (existing without SEP)	0.01
SSSI	Wettenhall & Darnhall Woods	4.70	0.001	4.70	3	0.03	Yes (existing without SEP)	0.02
SSSI	Wimboldsley Wood	4.50	0.001	4.50	3	0.03	Yes (existing without SEP)	0.02
SSSI	Witton Lime Beds	5.80	0.005	5.81	3	0.17	Yes (existing without SEP)	0.09
SAC	Oak Mere	3.30	0.001	3.30	3	0.03	Yes (existing without SEP)	0.02
SAC	West Midland Mosses	3.40	0.001	3.40	3	0.03	Yes (existing without SEP)	0.03
RAMSAR	Midland Meres & Mosses Phase 1	3.80	0.007	3.81	3	0.25	Yes (existing without SEP)	0.20
RAMSAR	Midland Meres & Mosses Phase 2	3.40	0.001	3.40	3	0.03	Yes (existing without SEP)	0.03

Acid Deposition Statutory Conservation Sites

Designation	Site Name	Habitat types	Max Background acid deposition	Maximum PC acid deposition from SEP	Maximum PEC acid deposition (existing plus SEP)	Min Critical Load (EQS) ¹	Maximum PC as % of Min EQS	Exceedance of Min EQS (existing)	Max Critical Load (EQS) ¹	Maximum PC as % of Max EQS	Exceedance of Max EQS (existing)	Max PC as % of background
SSSI	Abbots Moss	Birch Woodland	3.93	0.00	3.93	0.55	0.89	Yes	0.60	0.81	Yes	0.12
SSSI	Abbots Moss	Lowland heathland	2.21	0.00	2.21	0.10	3.16	Yes	0.10	3.16	Yes	0.14
SSSI	Abbots Moss	Raised bog and blanket bog	2.21	0.00	2.21	0.10	3.16	Yes	0.10	3.16	Yes	0.14
SSSI	Bagmere	Alaline fens and reedbeds	2.51	0.00	2.51	0.35	1.09	Yes	0.35	1.09	Yes	0.15
SSSI	Bagmere	Birch Woodland	4.41	0.01	4.42	0.90	0.65	Yes	0.90	0.65	Yes	0.13
SSSI	Beechmill Wood & Pasture	Ash Woodland	5.95	0.00	5.95	1.28	0.22	Yes	1.28	0.22	Yes	0.05
SSSI	Beechmill Wood & Pasture	lowland wood pastures and parkland	5.95	0.00	5.95	1.28	0.22	Yes	1.28	0.22	Yes	0.05
SSSI	Beechmill Wood & Pasture	Oak woodland	5.95	0.00	5.95	1.28	0.22	Yes	1.28	0.22	Yes	0.05
SSSI	Black Lake, Delamere	Alaline fens and reedbeds	2.34	0.00	2.34	0.38	0.78	Yes	0.38	0.78	Yes	0.13
SSSI	Dunham Park	lowland wood pastures and parkland	3.65	0.02	3.67	0.90	2.63	Yes	0.90	2.63	Yes	0.65
SSSI	Flaxmere Moss	Birch Woodland	3.48	0.01	3.49	0.54	0.93	Yes	0.54	0.93	Yes	0.14
SSSI	Flaxmere Moss	Oak woodland	3.48	0.01	3.49	0.54	0.93	Yes	0.54	0.93	Yes	0.14
SSSI	Flaxmere Moss	Raised bog and blanket bog	1.98	0.00	1.98	0.10	3.25	Yes	0.10	3.25	Yes	0.16
SSSI	Gleads Moss	Alaline fens and reedbeds	2.15	0.01	2.16	0.75	0.98	Yes	0.75	0.98	Yes	0.34
SSSI	Hatch Mere	Raised bog and blanket bog	1.98	0.00	1.98	0.10	3.30	Yes	0.10	3.30	Yes	0.17
SSSI	Hatton's Hey Wood, Whittle's Corner & Bank Rough	Ash Woodland	6.36	0.00	6.36	1.31	0.27	Yes	1.32	0.27	Yes	0.06
SSSI	Holly Banks	Oak woodland	3.78	0.01	3.79	1.01	0.77	Yes	1.01	0.77	Yes	0.20
SSSI	Linmer Moss	Alaline fens and reedbeds	2.34	0.00	2.34	0.10	3.04	Yes	0.10	3.04	Yes	0.13
SSSI	Little Budworth Common	Birch Woodland	3.85	0.00	3.85	0.55	0.80	Yes	0.55	0.80	Yes	0.11
SSSI	Little Budworth Common	Lowland heathland	2.16	0.00	2.16	0.10	2.85	Yes	0.10	2.85	Yes	0.13
SSSI	Little Budworth Common	Raised bog and blanket bog	2.16	0.00	2.16	0.10	2.85	Yes	0.10	2.85	Yes	0.13
SSSI	Pettypool Brook Valley	Birch Woodland	4.32	0.01	4.33	0.60	0.92	Yes	0.95	0.58	Yes	0.13
SSSI	Pettypool Brook Valley	Raised bog and blanket bog	2.48	0.00	2.48	0.10	3.55	Yes	0.35	1.02	Yes	0.14
SSSI	Plumley Lime Beds	Alaline fens and reedbeds	2.30	0.06	2.36	0.75	7.83	Yes	0.75	7.83	Yes	2.55
SSSI	Plumley Lime Beds	Birch Woodland	3.77	0.09	3.86	1.35	6.72	Yes	1.35	6.72	Yes	2.41
SSSI	Tabley Mere	Acid grassland	2.16	0.02	2.18	0.35	4.40	Yes	0.75	2.06	Yes	0.71
SSSI	Tabley Mere	Birch Woodland	3.77	0.02	3.79	0.89	2.68	Yes	1.48	1.61	Yes	0.63
SSSI	Tatton Meres	Acid grassland	2.01	0.01	2.02	0.35	4.08	Yes	0.75	1.90	Yes	0.71
SSSI	Tatton Meres	Birch Woodland	3.45	0.02	3.47	0.89	2.48	Yes	1.48	1.49	Yes	0.64
SSSI	Warburton's Wood & Well Wood	Lowland heathland	3.54	0.00	3.54	0.75	0.29	Yes	0.75	0.29	Yes	0.06
SSSI	Warburton's Wood & Well Wood	Oak woodland	6.36	0.00	6.36	1.32	0.26	Yes	1.32	0.26	Yes	0.05
SSSI	Wettenhall & Darnhall Woods	Ash Woodland	4.72	0.01	4.73	0.91	0.56	Yes	2.44	0.21	Yes	0.11
SSSI	Wettenhall & Darnhall Woods	Unimproved hay meadow	2.60	0.00	2.60	0.35	0.94	Yes	1.50	0.22	Yes	0.13
SSSI	Wimboldsley Wood	Birch Woodland	4.56	0.01	4.57	1.32	0.38	Yes	1.32	0.38	Yes	0.11
SSSI	Witton Lime Beds	Alaline fens and reedbeds	3.13	0.02	3.15	0.75	2.25	Yes	0.75	2.25	Yes	0.54
SSSI	Witton Lime Beds	Birch Woodland	5.60	0.03	5.63	1.33	1.96	Yes	1.35	1.93	Yes	0.46
SSSI	Witton Lime Beds	Calcareous grassland	3.13	0.02	3.15	0.75	2.25	Yes	0.75	2.25	Yes	0.54
SAC	Oak Mere	Raised bog and blanket bog	2.16	0.00	2.16	0.10	2.63	Yes	0.10	2.63	Yes	0.12
SAC	West Midland Mosses	Raised bog and blanket bog	2.21	0.00	2.21	0.10	3.16	Yes	0.10	3.16	Yes	0.14
RAMSAR	Midland Meres & Mosses Phase 1	Raised bog and blanket bog	2.51	0.02	2.53	0.35	6.96	Yes	0.75	3.25	Yes	0.97
RAMSAR	Midland Meres & Mosses Phase 2	Raised bog and blanket bog	2.21	0.00	2.21	0.10	3.09	Yes	0.10	3.09	Yes	0.14

Nitrogen Deposition Statutory Conservation Sites

Designation	Site Name	Habitat types	Background N deposition	Maximum PC N deposition from site	Maximum PEC N deposition (existing plus site)	Min Critical Load (EQS) ¹	Maximum PC as % of Min EQS	Exceedance of Min EQS (existing)	Max Critical Load (EQS) ¹	Maximum PC as % of Max EQS	Exceedance of Max EQS (existing)	Max PC as % of background
SSSI	Abbots Moss	Birch Woodland	50.70	0.00	50.70	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Abbots Moss	Lowland heatland	27.00	0.00	27.00	10	0.01	Yes	20	0.00	Yes	0.00
SSSI	Abbots Moss	Raised bog and blanket bog	27.00	0.00	27.00	5	0.02	Yes	10	0.01	Yes	0.00
SSSI	Bagmere	Alaline fens and reedbeds	31.10	0.00	31.10	10	0.01	Yes	20	0.00	Yes	0.00
SSSI	Bagmere	Birch Woodland	57.50	0.00	57.50	10	0.02	Yes	15	0.01	Yes	0.00
SSSI	Beechmill Wood & Pasture	Ash Woodland	78.10	0.00	78.10	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Beechmill Wood & Pasture	lowland wood pastures and parkland	78.10	0.00	78.10	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Beechmill Wood & Pasture	Oak woodland	78.10	0.00	78.10	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Black Lake, Delamere	Alaline fens and reedbeds	29.50	0.00	29.50	10	0.01	Yes	20	0.00	Yes	0.00
SSSI	Dunham Park	lowland wood pastures and parkland	46.10	0.01	46.11	10	0.06	Yes	15	0.04	Yes	0.01
SSSI	Flaxmere Moss	Birch Woodland	44.80	0.00	44.80	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Flaxmere Moss	Oak woodland	44.80	0.00	44.80	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Flaxmere Moss	Raised bog and blanket bog	24.10	0.00	24.10	5	0.02	Yes	10	0.01	Yes	0.00
SSSI	Gleads Moss	Alaline fens and reedbeds	26.70	0.00	26.70	10	0.02	Yes	20	0.01	Yes	0.01
SSSI	Hatch Mere	Raised bog and blanket bog	24.10	0.00	24.10	5	0.02	Yes	10	0.01	Yes	0.00
SSSI	Hatton's Hey Wood, Whittle's Corner & Bank Rough	Ash Woodland	85.00	0.00	85.00	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Holly Banks	Oak woodland	49.60	0.00	49.60	10	0.02	Yes	15	0.01	Yes	0.00
SSSI	Linmer Moss	Alaline fens and reedbeds	29.50	0.00	29.50	10	0.01	Yes	20	0.00	Yes	0.00
SSSI	Little Budworth Common	Birch Woodland	50.30	0.00	50.30	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Little Budworth Common	Lowland heatland	26.90	0.00	26.90	10	0.01	Yes	20	0.00	Yes	0.00
SSSI	Little Budworth Common	Raised bog and blanket bog	26.90	0.00	26.90	5	0.01	Yes	10	0.01	Yes	0.00
SSSI	Pettypool Brook Valley	Birch Woodland	54.90	0.00	54.90	10	0.02	Yes	15	0.01	Yes	0.00
SSSI	Pettypool Brook Valley	Raised bog and blanket bog	29.70	0.00	29.70	5	0.02	Yes	10	0.01	Yes	0.00
SSSI	Plumley Lime Beds	Alaline fens and reedbeds	28.60	0.01	28.61	15	0.09	Yes	25	0.06	Yes	0.05
SSSI	Plumley Lime Beds	Birch Woodland	53.10	0.02	53.12	10	0.25	Yes	15	0.17	Yes	0.05
SSSI	Tabley Mere	Acid grassland	26.30	0.00	26.30	10	0.04	Yes	20	0.02	Yes	0.01
SSSI	Tabley Mere	Birch Woodland	48.60	0.01	48.61	10	0.07	Yes	15	0.04	Yes	0.01
SSSI	Tatton Meres	Acid grassland	24.20	0.00	24.20	10	0.03	Yes	20	0.02	Yes	0.01
SSSI	Tatton Meres	Birch Woodland	44.20	0.01	44.21	10	0.06	Yes	15	0.04	Yes	0.01
SSSI	Warburton's Wood & Well Wood	Lowland heatland	45.80	0.00	45.80	10	0.01	Yes	20	0.00	Yes	0.00
SSSI	Warburton's Wood & Well Wood	Oak woodland	85.00	0.00	85.00	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Wettenhall & Darnhall Woods	Ash Woodland	62.90	0.00	62.90	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Wettenhall & Darnhall Woods	Unimproved hay meadow	33.30	0.00	33.30	20	0.00	Yes	30	0.00	Yes	0.00
SSSI	Wimboldsley Wood	Birch Woodland	60.80	0.00	60.80	10	0.01	Yes	15	0.01	Yes	0.00
SSSI	Witton Lime Beds	Alaline fens and reedbeds	38.50	0.00	38.50	15	0.03	Yes	25	0.02	Yes	0.01
SSSI	Witton Lime Beds	Birch Woodland	72.50	0.01	72.51	10	0.07	Yes	15	0.05	Yes	0.01
SSSI	Witton Lime Beds	Calcareous grassland	38.50	0.00	38.50	15	0.03	Yes	25	0.02	Yes	0.01
SAC	Oak Mere	Raised bog and blanket bog	26.90	0.00	26.90	5	0.01	Yes	10	0.01	Yes	0.00
SAC	West Midland Mosses	Raised bog and blanket bog	27.00	0.00	27.00	5	0.02	Yes	10	0.01	Yes	0.00
RAMSAR	Midland Meres & Mosses Phase 1	Raised bog and blanket bog	31.10	0.01	31.11	5	0.12	Yes	10	0.06	Yes	0.02
RAMSAR	Midland Meres & Mosses Phase 2	Raised bog and blanket bog	27.00	0.00	27.00	5	0.01	Yes	10	0.01	Yes	0.00