

Appendix F Concentrations of organochlorine pesticides in New Zealand air

This appendix reports the concentrations of organochlorine pesticides and pesticide degradation products in air samples collected as part of the Organochlorines Programme. Results from field quality control samples are also provided.

Organochlorine pesticide data are reported in the following tables:

Table F1	Concentrations in Baring Head air
Table F2	Concentrations in Nelson Lakes National Park air
Table F3	Concentrations in Te Wera air
Table F4	Concentrations in Culverden air
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Table F1 Concentrations of organochlorine pesticides in Baring Head air (pg m⁻³)

Pesticide	AR-06-1 (03/05/96 to 23/05/96)	AR-06-2 (09/07/96 to 29/07/96)	AR-06-3 (18/09/96 to 11/10/96)	AR-06-4 (27/11/96 to 17/12/96)	AR-06-5 (04/02/97 to 06/03/97)	AR-06-6 (06/05/97 to 27/05/97)	Number of positives	Minimum	Maximum	Median ¹	Mean ^{2,3}	Mean of ¹³ C surrogate standard recoveries, %, (n=6)
Alpha-HCH	2.07	2.24	1.41	1.59	2.45	0.52	6	0.52	2.45	1.83	1.71	
Beta-HCH	< 0.07	< 0.04	< 0.2	< 0.2	< 0.2	< 0.2	0	< 0.04	< 0.2	< 0.2	-	
Gamma-HCH	4.12	1.29	1.28	10.6	6.52	1.89	6	1.28	10.6	3.01	4.28	68
HCB	32.7	34.9	30.9	22.9	26.1	8.14	6	8.14	34.9	28.5	25.9	76
Aldrin	< 0.1	< 0.05	< 0.1	< 0.2	< 0.2	< 0.1	0	< 0.05	< 0.2	< 0.1	-	
Dieldrin	9.91	4.02	3.25	3.66	3.37	3.89	6	3.25	9.91	3.78	4.68	49
Heptachlor	< 0.6	< 0.3	< 0.4	0.43	1.19	1.47	3	< 0.3	1.47	0.37	-	
Heptachlor epoxide	< 0.5	< 0.4	< 0.2	< 0.3	3.46	< 0.3	1	< 0.2	3.46	< 0.4	-	
Alpha-chlordane	0.89	0.78	< 0.3	0.74	1.04	0.58	5	< 0.3	1.04	0.76	0.67	
Gamma-chlordane	0.97	0.61	< 0.2	0.75	1.12	0.66	5	< 0.2	1.12	0.71	0.69	
pp-DDE	5.25	5.95	2.29	2.51	2.99	1.04	6	1.04	5.95	2.75	3.34	89
pp-TDE	0.51	0.18	< 0.1	< 0.3	< 0.4	< 0.2	2	< 0.1	0.51	< 0.4	-	
op-DDT	0.80	0.85	< 0.2	0.54	0.72	0.37	5	< 0.2	0.85	0.63	0.55	
pp-DDT	1.04	1.16	< 0.7	1.16	1.49	0.85	5	< 0.7	1.49	1.10	0.95	59

1 = For any individual pesticide, when calculating the median involved averaging an LOD value and a measured value, half the LOD value was taken.

2 = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 4 positive determinations).

3 = For any individual pesticide, calculation of the mean excludes LOD values.

Table F2 Concentrations of organochlorine pesticides in Nelson Lakes National Park air (pg m⁻³)

Pesticide	AR-07-1 (22/03/96 to 11/04/96)	AR-07-2 (24/05/96 to 13/06/96)	AR-07-3 (09/10/96 to 29/10/96)	AR-07-5 (03/01/97 to 23/01/97)	Number of positives	Minimum	Maximum	Median ¹	Mean ²	Mean of ¹³ C surrogate standard recoveries, %, (n=4)
Alpha-HCH	4.86	1.63	3.64	2.46	4	1.63	4.86	3.05	3.15	
Beta-HCH	< 0.5	< 0.01	< 0.09	< 0.1	0	< 0.01	< 0.5	< 0.1	-	
Gamma-HCH	6.19	1.45	1.96	154	4	1.45	154	4.08	3.20 ³	45
HCB	27.9	24.2	28.8	24.8	4	24.2	28.8	26.4	26.4	62
Aldrin	< 0.1	< 0.02	< 0.04	< 0.1	0	< 0.02	< 0.1	< 0.07	-	
Dieldrin	4.26	1.58	1.17	2.61	4	1.17	4.26	2.10	2.41	50
Heptachlor	< 1	< 0.3	< 0.3	< 0.4	0	< 0.3	< 1	< 0.4	-	
Heptachlor epoxide	< 1	< 0.09	< 0.07	< 0.2	0	< 0.07	< 1	< 0.1	-	
Alpha-chlordane	0.66	< 0.3	< 0.2	< 0.3	1	< 0.2	0.66	< 0.3	-	
Gamma-chlordane	0.83	< 0.4	< 0.2	< 0.3	1	< 0.2	0.83	< 0.4	-	
pp-DDE	3.13	1.11	2.05	2.25	4	1.11	3.13	2.15	2.14	85
pp-TDE	0.42	0.22	< 0.04	< 0.4	2	< 0.04	0.42	0.21	-	
op-DDT	1.18	0.24	0.43	0.61	4	0.24	1.18	0.52	0.62	
pp-DDT	1.28	0.39	0.66	0.88	4	0.39	1.28	0.77	0.80	54

1 = For any individual pesticide, when calculating the median involved averaging an LOD value and a measured value, half the LOD value was taken.

2 = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 3 positive determinations).

3 = Excludes outlier (154 pg m⁻³) for sample (AR-07-5) collected 03/01/97 to 23/01/97 . Mean = 40.9 pg m⁻³ if outlier included.

Table F3 Concentrations of organochlorine pesticides in Te Wera air (pg m⁻³)

Pesticide	AR-04-1 (26/04/96 to 16/05/96)	AR-04-2 (26/06/96 to 15/07/96)	AR-04-3 (16/08/96 to 06/09/96)	AR-04-5 (20/02/97 to 13/03/97)	AR-04-6 (25/03/97 to 09/04/97)	Number of positives	Minimum	Maximum	Median	Mean ^{1,2}	Mean of ¹³ C surrogate standard recoveries, %, (n=5)
Alpha-HCH	2.35	2.09	2.46	4.50	4.12	5	2.09	4.50	2.46	3.10	
Beta-HCH	< 0.2	< 0.04	< 0.1	< 0.2	< 0.2	0	< 0.04	< 0.2	< 0.2	-	
Gamma-HCH	1.82	1.83	1.86	5.67	19.4	5	1.82	19.4	1.86	6.12	44
HCB	28.3	26.2	24.2	25.6	21.0	5	21.0	28.3	25.6	25.1	54
Aldrin	< 0.2	< 0.05	< 0.04	< 0.1	< 0.1	0	< 0.04	< 0.2	< 0.1	-	
Dieldrin	6.63	5.89	6.95	17.0	16.0	5	5.89	17.0	6.95	10.5	42
Heptachlor	0.84	1.22	6.67	7.84	3.30	5	0.84	7.84	3.30	3.97	
Heptachlor epoxide	< 0.2	0.50	0.32	< 0.2	< 0.2	2	< 0.2	0.50	< 0.2	-	
Alpha-chlordane	0.43	0.60	0.66	0.89	1.81	5	0.43	1.81	0.66	0.88	
Gamma-chlordane	0.53	1.35	0.90	1.88	2.19	5	0.53	2.19	1.35	1.37	
pp-DDE	5.07	4.50	5.13	5.32	4.20	5	4.20	5.32	5.07	4.84	87
pp-TDE	0.38	0.46	< 0.1	0.34	0.60	4	< 0.1	0.60	0.38	0.36	
op-DDT	0.41	0.46	0.41	1.19	0.94	5	0.41	1.19	0.46	0.68	
pp-DDT	1.06	1.15	0.98	1.70	2.78	5	0.98	2.78	1.15	1.53	40

1 = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 4 positive determinations).

2 = For any individual pesticide, calculation of the mean excludes LOD values.

Table F4 Concentrations of organochlorine pesticides in Culverden air (pg m⁻³)

Pesticide	AR-10-1 (15/03/96 to 04/04/96)	AR-10-2 (20/05/96 to 10/06/96)	AR-10-3 (18/07/96 to 09/08/96)	AR-10-4 (12/09/96 to 02/10/96)	AR-10-5 (18/12/96 to 07/01/97)	AR-10-6 (13/02/97 to 05/03/97)	Number of positives	Minimum	Maximum ¹	Median ²	Mean ^{3,4}	Mean of ¹³ C surrogate standard recoveries< %, (n=6)
Alpha-HCH	4.78	2.58	4.34	5.52	6.65	4.52	6	2.58	6.65	4.65	4.73	
Beta-HCH	< 0.9	< 0.3	0.93	0.77	1.67	0.63	4	< 0.3	1.67	0.70	0.67	
Gamma-HCH	10.7	5.77	7.33	11.9	23.0	8.83	6	5.77	23.0	9.77	11.3	50
HCB	32.3	23.2	28.7	29.0	27.8	25.4	6	23.2	32.3	28.3	27.7	56
Aldrin	< 0.05	< 0.1	< 0.1	< 0.04	< 0.2	< 0.2	0	< 0.04	< 0.2	< 0.1	-	
Dieldrin	118	40.5	288	124	127	120	6	40.5	288	122	136	48
Heptachlor	< 2	0.51	0.39	0.56	< 0.4	< 0.4	3	0.39	0.56	0.70	-	
Heptachlor epoxide	< 0.5	< 0.2	< 0.3	5.41	< 0.3	< 0.3	1	< 0.2	5.41	< 0.3	-	
Alpha-chlordane	0.56	< 0.4	< 0.6	< 0.7	< 0.4	0.84	2	< 0.4	0.84	< 0.7	-	
Gamma-chlordane	0.80	< 0.5	< 0.6	< 0.7	< 0.4	0.81	2	< 0.4	0.81	< 0.7	-	
pp-DDE	27.1	15.1	26.7	27.2	28.4	33.5	6	15.1	33.5	27.2	26.3	95
pp-TDE	4.11	0.35	< 0.1	< 0.1	0.35	0.55	4	< 0.1	4.11	0.35	0.89	
op-DDT	7.47	1.06	1.87	1.59	1.65	1.82	6	1.06	7.47	1.74	2.58	
pp-DDT	12.3	1.17	1.36	2.44	1.96	2.27	6	1.17	12.3	2.12	3.58	42

1 = Excludes any LOD value which is greater than a maximum measured value.

2 = For any individual pesticide, when calculating the median involved averaging an LOD value and a measured value, half the LOD value was taken.

3 = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 4 positive determinations).

4 = For any individual pesticide, calculation of the mean excludes LOD values.

Table F5 Concentrations of organochlorine pesticides in Hamilton air (pg m⁻³)

Pesticide	AR-03-2/AR-03-2 CS (n=2) ¹ (31/05/96 to 20/06/96)	AR-03-3 (19/07/96 to 08/08/96)	AR-03-4/AR-03-4 CS (n=2) ¹ (17/09/96 to 10/10/96)	AR-03-5 (15/11/96 to 05/12/96)	AR-03-6 (20/01/97 to 10/02/97)	AR-03-7 (14/03/97 to 03/04/97)	Number of positives	Minimum	Maximum	Median	Mean ^{2,3}	Mean of ¹³ C surrogate standard recoveries, %, (n=8)
Alpha-HCH	2.65	3.26	4.43	3.83	4.89	2.88	6	2.65	4.89	3.55	3.66	
Beta-HCH	< 0.6	< 0.2	< 0.5	< 0.2	< 0.2	< 0.2	0	< 0.2	< 0.6	< 0.2	-	
Gamma-HCH	17.9	12.5	20.6	15.8	32.7	26.0	6	12.5	32.7	19.3	20.9	49
HCB	32.7	31.4	31.0	33.7	31.5	29.3	6	29.3	33.7	31.5	31.6	66
Aldrin	7.89	0.53	0.78	0.55	< 0.5	< 0.3	4	< 0.3	7.89	0.54	1.63	
Dieldrin	185	129	127	113	148	163	6	113	185	139	144	57
Heptachlor	2.79	19.3	22.6	18.9	31.6	35.0	6	2.79	35.0	21.0	21.7	
Heptachlor epoxide	< 0.4	< 0.2	< 0.5	< 0.5	< 0.2	< 0.2	0	< 0.2	< 0.5	< 0.3	-	
Alpha-chlordane	1.75	2.63	2.25	1.71	3.53	4.11	6	1.71	4.11	2.44	2.66	
Gamma-chlordane	2.40	3.89	3.54	3.45	5.43	7.16	6	2.40	7.16	3.72	4.31	
pp-DDE	9.15	6.13	5.91	3.94	7.19	8.15	6	3.94	9.15	6.66	6.75	93
pp-TDE	1.14	0.42	0.28	0.27	0.41	0.44	6	0.27	1.14	0.42	0.49	
op-DDT	3.84	1.87	1.76	1.90	2.41	3.25	6	1.76	3.84	2.16	2.51	
pp-DDT	14.3	3.85	3.65	3.53	5.25	6.35	6	3.53	14.3	4.55	6.16	61

1 = Mean of collocated samples.

2 = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 4 positive determinations).

3 = For any individual pesticide, calculation of the mean excludes LOD values.

Table F6 Concentrations of organochlorine pesticides in Masterton air (pg m⁻³)

Pesticide	AR-05-1 (21/03/96 to 11/04/96)	AR-05-3 (13/08/96 to 02/09/96)	AR-05-4 (11/10/96 to 21/11/96)	AR-05-5 (23/12/96 to 22/01/97)	AR-05-6 (14/03/97 to 15/04/97)	Number of positives	Minimum	Maximum	Median	Mean ^{1,2}	Mean of ¹³ C surrogate standard recoveries, %, (n=5)
Alpha-HCH	6.41	4.06	4.27	3.91	3.35	5	3.35	6.41	4.06	4.40	
Beta-HCH	< 2	< 0.2	< 0.2	< 0.2	< 0.2	0	< 0.2	< 2	< 0.2	-	
Gamma-HCH	24.3	28.1	18.9	16.5	17.4	5	16.5	28.1	18.9	21.0	36
HCB	42.7	32.1	56.3	32.7	30.3	5	30.3	56.3	32.7	38.8	44
Aldrin	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2	0	< 0.2	< 0.5	< 0.2	-	
Dieldrin	42.7	29.6	20.8	37.4	28.3	5	20.8	42.7	29.6	31.8	62
Heptachlor	< 5	2.93	4.97	5.94	4.77	4	< 5	5.94	4.77	3.72	
Heptachlor epoxide	< 2	< 0.2	< 0.2	< 0.3	< 0.3	0	< 0.2	< 2	< 0.3	-	
Alpha-chlordane	3.38	0.64	0.85	1.15	1.79	5	0.64	3.38	1.15	1.56	
Gamma-chlordane	4.28	1.00	1.01	1.49	2.18	5	1.00	4.28	1.49	1.99	
pp-DDE	20.3	22.7	14.9	15.7	15.6	5	14.9	22.7	15.7	17.8	81
pp-TDE	3.90	1.89	2.30	1.14	1.74	5	1.14	3.90	1.89	2.19	
op-DDT	13.5	5.02	4.59	5.62	5.80	5	4.59	13.5	5.62	6.91	
pp-DDT	12.1	14.5	7.72	8.55	10.5	5	7.72	14.5	10.5	10.7	56

1 = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 4 positive determinations).

2 = For any individual pesticide, calculation of the mean excludes LOD values.

Table F7 Concentrations of organochlorine pesticides in Greymouth air (pg m⁻³)

Pesticide	AR-08-1 (21/06/96 to 12/07/96)	AR-08-2 (15/07/96 to 05/08/96)	AR-08-3 (12/08/96 to 02/09/96)	AR-08-4 (04/02/97 to 28/02/97)	AR-08-5 (04/03/97 to 24/03/97)	Number of positives	Minimum	Maximum	Median	Mean ¹	Mean of ¹³ C surrogate standard recoveries, %, (n=5)
Alpha-HCH	2.33	2.78	2.67	4.73	2.87	5	2.33	4.73	2.78	3.08	
Beta-HCH	< 0.2	< 0.2	< 0.7	< 0.2	< 0.2	0	< 0.2	< 0.7	< 0.2	-	
Gamma-HCH	5.12	4.54	4.93	12.5	7.59	5	4.54	12.5	5.12	6.94	42
HCB	38.0	37.6	63.6	38.6	31.8	5	31.8	63.6	38.0	41.9	47
Aldrin	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	0	< 0.2	< 0.5	< 0.2	-	
Dieldrin	6.45	8.40	9.01	12.3	12.3	5	6.45	12.3	9.01	9.69	48
Heptachlor	7.39	24.4	14.6	11.9	11.3	5	7.39	24.4	11.9	13.9	
Heptachlor epoxide	< 0.4	< 0.2	4.68	< 0.2	< 0.3	1	< 0.2	4.68	< 0.3	-	
Alpha-chlordane	0.75	1.62	1.00	2.30	2.14	5	0.75	2.30	1.62	1.56	
Gamma-chlordane	1.55	3.05	1.75	3.15	3.07	5	1.55	3.15	3.05	2.51	
pp-DDE	3.11	4.07	2.48	6.97	3.88	5	2.48	6.97	3.88	4.10	101
pp-TDE	0.27	0.23	0.37	0.39	0.43	5	0.23	0.43	0.37	0.34	
op-DDT	1.84	1.42	1.10	3.05	1.55	5	1.10	3.05	1.55	1.79	
pp-DDT	2.81	2.23	2.53	4.77	3.86	5	2.23	4.77	2.81	3.24	60

¹ = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 4 positive determinations).

Table F8 Concentrations of organochlorine pesticides in Christchurch air (pg m⁻³)

Pesticide	AR-09-1 (19/06/96 to 09/07/96)	AR-09-2 (14/08/96 to 04/09/96)	AR-09-3 (09/10/96 to 01/11/96)	AR-09-4 (13/11/96 to 04/12/96)	AR-09-5 (22/01/97 to 12/02/97)	AR-09-6 (10/03/97 to 25/03/97)	Number of positives	Minimum	Maximum ¹	Median	Mean ^{2,3}	Mean of ¹³ C surrogate standard recoveries, %, (n=6)
Alpha-HCH	< 0.4	2.86	4.01	4.31	3.12	2.93	5	< 0.4	4.31	3.03	2.87	
Beta-HCH	< 0.04	< 0.2	< 0.2	< 0.2	< 0.1	< 0.2	0	< 0.04	< 0.2	< 0.2	-	
Gamma-HCH	12.2	21.7	28.9	15.6	14.3	19.6	6	12.2	28.9	17.6	18.7	49
HCB	31.2	32.2	31.8	39.3	30.5	33.7	6	30.5	39.3	32.0	33.1	50
Aldrin	< 0.06	< 0.2	< 0.2	< 0.3	< 0.2	< 0.2	0	< 0.06	< 0.3	< 0.2	-	
Dieldrin	57.5	49.7	43.3	42.2	48.0	48.6	6	42.2	57.5	48.3	48.2	63
Heptachlor	< 0.7	4.75	6.87	6.70	5.91	6.59	5	< 0.7	6.87	6.25	5.14	
Heptachlor epoxide	< 2	1.09	< 0.3	< 0.4	< 0.2	< 0.3	1	< 0.2	1.09	< 0.4	-	
Alpha-chlordane	3.67	2.60	1.90	1.67	1.71	2.95	6	1.67	3.67	2.25	2.42	
Gamma-chlordane	6.19	3.19	2.30	1.73	1.91	3.59	6	1.73	6.19	2.75	3.15	
pp-DDE	24.4	20.5	24.5	13.5	12.3	14.9	6	12.3	24.5	17.7	18.4	80
pp-TDE	5.78	1.14	0.90	0.70	1.03	0.81	6	0.70	5.78	0.97	1.73	
op-DDT	3.94	5.35	9.54	5.19	5.04	3.91	6	3.91	9.54	5.12	5.50	
pp-DDT	9.22	14.3	16.8	6.40	6.08	5.69	6	5.69	16.8	7.81	9.75	51

1 = Excludes any LOD value which is greater than a maximum measured value.

2 = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 4 positive determinations).

3 = For any individual pesticide, calculation of the mean excludes LOD values.

Table F9 Concentrations of organochlorine pesticides in Auckland City air (pg m⁻³)

Pesticide	AR-01-2 (17/07/96 to 06/08/96)	AR-01-3 (11/11/96 to 02/12/96)	AR-01-4 (07/01/97 to 28/01/97)	AR-01-5 (06/03/97 to 26/03/97)	Number of positives	Minimum	Maximum	Median	Mean ¹	Mean of ¹³ C surrogate standard recoveries, %, (n=4)
Alpha-HCH	3.02	4.04	3.47	2.93	4	2.93	4.04	3.25	3.37	
Beta-HCH	< 0.3	< 0.2	< 0.2	< 0.2	0	< 0.2	< 0.3	< 0.2	-	
Gamma-HCH	28.2	49.9	44.2	43.1	4	28.2	49.9	43.7	41.4	31
HCB	36.9	44.0	34.5	27.8	4	27.8	44.0	35.7	35.8	39
Aldrin	< 0.3	< 0.3	< 0.3	< 0.2	0	< 0.2	< 0.3	< 0.3	-	
Dieldrin	39.0	31.2	37.8	42.8	4	31.2	42.8	38.4	37.7	44
Heptachlor	17.3	19.8	19.7	17.1	4	17.1	19.8	18.5	18.5	
Heptachlor epoxide	< 0.1	< 0.4	< 0.5	3.87	1	< 0.1	3.87	< 0.5	-	
Alpha-chlordane	7.26	2.92	5.04	8.52	4	2.92	8.52	6.15	5.94	
Gamma-chlordane	9.27	3.82	5.92	10.4	4	3.82	10.4	7.60	7.35	
pp-DDE	7.75	7.53	6.33	8.24	4	6.33	8.24	7.64	7.46	81
pp-TDE	0.96	1.04	0.86	2.21	4	0.86	2.21	1.00	1.27	
op-DDT	4.08	5.64	6.44	6.14	4	4.08	6.44	5.89	5.58	
pp-DDT	8.58	8.25	8.44	9.93	4	8.25	9.93	8.51	8.80	45

¹ = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 3 positive determinations).

Table F10 Concentrations of organochlorine pesticides in Auckland South air (pg m⁻³)

Pesticide	AR-02-1 (15/03/96 to 04/04/96)	AR-02-2/AR-02-2 CS (n=2) ¹ (26/06/96 to 16/07/96)	AR-02-3 (12/08/96 to 03/09/96)	AR-02-4/AR-02-4 CS (n=2) ¹ (16/10/96 to 05/11/96)	AR-02-5/AR-02-5 CS (n=2) ¹ (06/12/96 to 26/12/96)	Number of positives	Minimum	Maximum	Median	Mean ²	Mean of ¹³ C surrogate standard recoveries, %, (n=8)
Alpha-HCH	7.83	3.36	3.99	4.87	3.29	5	3.29	7.83	3.99	4.67	
Beta-HCH	< 0.8	< 0.2	< 0.6	< 0.4	< 0.3	0	< 0.2	< 0.8	< 0.4	-	
Gamma-HCH	49.4	18.6	13.6	33.9	14.1	5	13.6	49.4	18.6	25.9	54
HCB	99.4	44.1	39.0	90.4	41.1	5	39.0	99.4	44.1	62.8	55
Aldrin	< 0.3	< 0.3	< 0.7	< 0.5	< 0.3	0	< 0.3	< 0.7	< 0.3	-	
Dieldrin	75.5	47.3	25.0	34.7	29.5	5	25.0	75.5	34.7	42.4	55
Heptachlor	11.9	17.9	23.4	30.3	23.0	5	11.9	30.3	23.0	21.3	
Heptachlor epoxide	< 2	< 0.5	< 0.4	< 0.3	< 0.3	0	< 0.3	< 2	< 0.4	-	
Alpha-chlordane	7.66	5.45	3.98	5.00	5.53	5	3.98	7.66	5.45	5.52	
Gamma-chlordane	9.82	9.02	5.46	9.00	8.16	5	5.46	9.82	9.00	8.29	
pp-DDE	27.1	10.9	7.23	9.15	7.65	5	7.23	27.1	9.15	12.4	101
pp-TDE	5.39	1.94	1.08	1.44	1.12	5	1.08	5.39	1.44	2.19	
op-DDT	10.9	4.79	2.73	3.83	2.60	5	2.60	10.9	3.83	4.97	
pp-DDT	12.9	9.29	5.91	6.58	4.57	5	4.57	12.9	6.58	7.85	51

1 = Mean of collocated samples.

2 = Mean value reported only if a pesticide detected on more than 66% of occasions (minimum of 4 positive determinations).

Table F12 Concentrations of organochlorine pesticides in field and equipment rinsate blanks (pg m⁻³)¹

Pesticide	Field blank; AR-07-3 FB (Nelson Lakes National Park: Reference)	Field blank; AR-04-1 FB (Te Wera: Rural)	Field blank; AR-03-2 FB (Hamilton: Urban)	Field blank; AR-05-3 FB (Masterton: Urban)	Field blank; AR-09-2 FB (Christchurch: Urban)	Field blank; AR-02-1 FB (Auckland South: Industrial)	Equipment rinsate blank; AR-10-5 RB (Culverden: Rural)	Equipment rinsate blank; AR-01-1 RB (Auckland City: Urban)	Equipment rinsate blank; AR-01-2 RB (Auckland City: Urban)	Mean of 13C surrogate standard recoveries, %, (n=9)
Alpha-HCH	< 0.03	< 0.02	< 0.02	< 0.08	< 0.04	< 0.02	< 0.03	< 0.01	< 0.01	
Beta-HCH	< 0.04	< 0.02	< 0.04	< 0.05	< 0.03	< 0.02	< 0.03	< 0.03	< 0.02	
Gamma-HCH	< 0.2	< 0.2	< 0.2	2.98	0.85	< 0.02	< 0.06	< 0.05	< 0.09	72
HCB	< 0.05	< 0.2	< 0.4	< 0.06	< 0.07	< 3	< 0.04	< 0.03	< 0.04	77
Aldrin	< 0.04	< 0.01	< 0.03	< 0.03	< 0.01	< 0.08	< 0.02	< 0.01	< 0.01	
Dieldrin	< 0.3	< 0.2	< 0.7	< 0.3	< 0.3	< 2	< 0.2	< 0.3	< 0.4	66
Heptachlor	< 0.05	< 0.02	< 0.08	< 0.03	< 0.01	< 0.06	< 0.03	< 0.02	< 0.02	
Heptachlor epoxide	< 0.08	< 0.06	< 0.07	< 0.05	< 0.08	< 0.2	< 0.05	< 0.09	< 0.07	
Alpha-chlordane	< 0.2	< 0.05	< 0.1	< 0.07	< 0.05	< 0.3	< 0.04	< 0.08	< 0.07	
Gamma-chlordane	< 0.2	< 0.06	< 0.2	< 0.06	< 0.05	< 0.3	< 0.04	< 0.08	< 0.08	
pp-DDE	< 0.09	< 0.06	< 0.2	< 0.4	< 0.3	< 0.09	< 0.07	< 0.04	< 0.2	90
pp-TDE	< 0.05	< 0.02	< 0.03	< 0.07	< 0.08	< 0.02	< 0.01	< 0.01	< 0.02	
op-DDT	< 0.06	< 0.02	< 0.03	< 0.06	< 0.07	< 0.03	< 0.01	< 0.01	< 0.03	
pp-DDT	< 0.2	< 0.04	< 0.1	< 0.05	< 0.09	< 0.05	< 0.04	< 0.04	< 0.2	67

¹ = Results reported using the volume of the associated primary air sample collected.