

TABLE OF WATER MONITORING PROGRAMMES FOLLOWING 1080 AERIAL BAITING OPERATIONS

The Drinking-Water Standards for New Zealand, issued in 2005 (revised 2018) by the Ministry of Health, specify a Provisional Maximum Acceptable Value (PMAV) for 1080 in water of 3.5 ppb. The PMAV value is one that, on the basis of present knowledge, is not considered to cause any significant risk to the health of the consumer over a lifetime of consumption of the water. However, the Ministry of Health also recommends that water taken from catchments sown with 1080 baits should not be used for human supply until tests show that the concentration of 1080 is below 2 ppb. The figure of 2 ppb is an approximation of 50% of the PMAV value, and is applied to testing water for 1080 as a precautionary/conservative measure.

Operation by Region (conc. 1080 in %)	Date	Positive samples	Conc. 1080 detected, ppb	Remarks (noted where provided by Client)
Otago (0.02%)	7/92	12	10 < 0.3 1 = 0.3 1 = 0.6	
Taranaki (0.15%)	5-8/93	18	18 < 0.3	Contaminated containers
Auckland (0.08 and 0.15%)	6/94	8	1 = 0.7 1 = 0.5 1 = 0.4 2 = 0.3 1 = 0.2 2 = 0.1	Reticulated = 7
Marlborough (0.15%)	8/94	3	1 = 0.1 1 = 0.5 1 = 3.4	Sample with high result taken from bay at 6.00pm on 11/8/94
Tasman (0.15%)	8/94	2	1 = 0.4 1 = 0.6	

Operation by Region (conc. 1080 in %)	Date	Positive samples	Conc. 1080 detected, ppb	Remarks (noted where provided by Client)
Manawatu-Wanganui (0.08%)	10-11/94	1	0.2	Positive from site with bait visible in stream
Waikato (0.15%)	8-12/94	1	0.8	Positive sample where baits close to stream
Canterbury (0.08%)	5-6/95	1	0.2	
Hawke's Bay (0.08%)	~9/95	1	0.3	
Gisborne (0.15%)	5/96	1	0.2	Bait observed near stream
Manawatu-Wanganui (0.15%)	10/96	1	0.1	
Manawatu-Wanganui (0.08%)	9/96	1	3.5	Contaminated sample at horseshoe bend 48 hours after operation
Waikato	9/97	1	2.4	Taken from spillway of hydro lake. Think this was container contamination from overalls
Bay of Plenty (0.15%)	10-11/97	1	0.5	Sample from head-water junction, low flow, on day of drop, baits observed in water
Taranaki	5-7/98	2	1=9.0 1=0.6	High result from sample taken on day of operation at weir downstream from carrot baiting. Operator wearing contaminated overalls, took sample in the dark.
Bay of Plenty (0.15%)	8/99	2	1 = 4.0 1 = 1.0	Positive samples taken at Site 2; same day and at 24 hours. Resample after 6 days was negative.
Marlborough (0.15%)	9/99	1	0.2	
Tasman	7/00	1	0.5	
Canterbury	5/01	1	0.3	No reason for +ve.

Operation by Region (conc. 1080 in %)	Date	Positive samples	Conc. 1080 detected, ppb	Remarks (noted where provided by Client)
Tasman (0.15%)	6/01	1	0.2	
Otago	7/02	1	0.8	
Canterbury	8/02	2	1=1.0 1=0.8	The first +ve on the day after the drop, and the second on the day of the drop. Both sites within the treatment area. Bait seen on the access road.
Hawkes Bay	9/02	1	0.6	
Canterbury (0.15%)	7/04	1	0.2	Sample taken on the day of the operation, from a small stream.
Waikato (0.15%)	5/05	1	0.2	Positive sample taken from river on 25/5/05: 2300hrs.
Southland	7/05	1	0.2	
Manawatu-Wanganui	8/05	2	1 = 0.1 1 = 0.4	
West Coast	1/06	1	0.1	
Hawkes Bay	5/06	1	1.3	
Waikato	9/06	1	0.1	
Bay of Plenty	9/06	2	1 = 0.1 1 = 0.5	
Southland	10/06	4	3 = 0.2 1 = 0.4	
West Coast	1/07	1	0.2	Not a drinking water supply
West Coast	7/07	1	0.2	May have been a domestic water supply.
Southland	9/07	2	1=0.5 1= 2.3	Samples from streams containing 1080 baits.
West Coast	8/08	2	2=0.2	Stock water supplies affected
Manawatu-Wanganui	12/08	1	0.1	Not a domestic supply

Operation by Region (conc. 1080 in %)	Date	Positive samples	Conc. 1080 detected, ppb	Remarks (noted where provided by Client)
West Coast	6/09	1	0.2	Water supply for a picnic area, closed down during operation
West Coast	6/09	1	0.1	Water tank for domestic and stock water supplied by a stream
West Coast	8/09	3	1=1.6 1=0.3 1=0.5	Contamination of the sample bottles by the control operator
West Coast	8/09	1	0.1	Not a domestic supply
Canterbury	7/09	1	0.3	No domestic supplies affected
Waikato	10/11	2	1=0.6 1=0.3	Not domestic and possible bait in stream as overflown
Waikato	6/12	1	0.2	water supply
Southland	8/14	2	1=0.1 1=0.2	Not a water supply
Southland	8/14	1	0.2	Not a water supply
Waikato	11/15	1	0.1	
Taranaki	12/16	1	0.2	
West Coast	12/16	2	1=0.2 1=0.3	
Taranaki	12/16	1	0.2	
Northland	10/18	1	0.1	
Manawatu-Wanganui	11/18	1	0.2	