

## Appendix G Abbreviations and Terms

2,3,7,8- and similar	In organic chemistry, positions of atoms or functional groups substituted in place of hydrogen atoms around the base molecule. In the case of dioxin, chlorine atoms on up to eight possible positions around two joined benzene molecules.
2,4-D	2,4-dichlorophenoxyacetic acid – a selective herbicide.
1,2,3,7,8-PeCDD	1,2,3,7,8-pentachlorodibenzo-p-dioxin
2,3,7,8-TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
2,4,5-T	2,4,5-trichloropheoxyacetic acid – a herbicide for woody plants
AgriQuality	AgriQuality New Zealand Limited
ATSDR	Agency for Toxic Substance and Disease Registry (USA)
DIAG	Dioxin Action Group
dibenzo	Molecule with two hexagonal benzene rings
dioxin	Generic term for PCDDs and PCDFs (see below) but also commonly used for 2,3,7,8-TCDD.
DIN	Dioxin Investigation Network
Dow	Dow AgroSciences (NZ) Limited
ESR	Institute of Environmental Research and Science limited
GC-MS	Gas chromatograph-mass spectrometer – equipment for chemical analysis
heptachloro	seven chlorine atoms
hexachloro	six chlorine atoms
I-TEQ	TEQ calculated using the “International” TEF scheme – see WHO-TEQ
LOD	limit of detection
MfE	Ministry for the Environment
MoH	Ministry of Health
MCPB	4-(4-chloro-2-methylphenoxy) butanoic acid – a selective herbicide
MRL	minimum risk level
ng	nanogram – a billionth of a gram
ng/kg	nanogram/kilogram = parts per trillion (by mass)
nk/L	nanogram/litre = parts per trillion in water

---

Dioxin Concentrations in Residential Soil, Paritutu, New Plymouth

NOAEL	no observable adverse affects level
OCDD	octachlorodibenzo-p-dioxin
OCDF	octachlorodibenzofuran
cctachloro	eight chlorine atoms
PCDD	polychlorinated dibenzo-p-dioxin
PCDF	polychlorinated dibenzo-furan
PCP	pentachlorophenol – a wood-treatment fungicide
pentachloro	five chlorine atoms
PDP	Pattle Delamore Partners Limited
PRG	preliminary remediation goal
TDI	Tolerable daily intake
TCDD	tetrachlorinated dibenzo-p-dioxin =2,3,7,8-TCDD
TCP	trichlorophenol – raw material for 2,4,5-T
TEF	toxic equivalency factor (relative to 2,3,7,8-TCDD)
TEQ	toxic equivalent concentration (of 2,3,7,8-TCDD)
tetrachloro	four chlorine atoms
TDHB	Taranaki District Health Board
TRC	Taranaki Regional Council
trichloro	three chlorine atoms
USEPA	United States Environmental Protection Agency
WHO	World Health Organisation
WHO-TEQ	TEQs calculated using the WHO TEF scheme