

# Subject Index

- acetylcholinesterase, 287  
 acetylthiocholine, 287  
 activated carbon, 13, 64, 90, 162, 231,  
     238, 346, 354  
 Adliswil, 171  
 advanced oxidation processes, 346, 353  
 Alamosa, 53  
 Americium-241, 64  
 aquifer, 71, 85, 181, 186, 272  
 atrazine, 150  
  
 Bergen, 53, 260  
 biofilm, 90, 116, 120, 130, 244, 276, 280,  
     286, 294, 314, 325, 340  
 blister agents, 287  
 Bonn Charter, 34, 45  
  
 Cabool, 53, 197  
 caesium-134, 8, 12, 20  
 caesium-137, 8, 12, 20, 64,  
 caffeine, 151  
 Camelford, 156, 157, 158, 160  
*Campylobacter*, 53  
 carbamazepine, 150  
 CBRN, 161, 280, 286  
 chemical sensor, 100  
 chloracetophenone, 185  
 chlorination, 50, 87, 235, 241, 276, 314,  
     340, 346, 356  
 chlorine, 50, 61, 101, 174, 225, 233, 251,  
     271, 277, 294, 309, 314, 326, 340  
 chromium, 164  
 cobalt-60, 64, 65, 66, 68, 69  
 coliform, 49, 51, 198  
 conceptual model, 74, 145, 153, 272  
 contaminants, 64, 75, 94, 103, 116, 132,  
     161, 185, 195, 205, 275, 280, 298, 314,  
     330, 340, 348, 357, 364  
 contamination, 14, 22, 47, 64, 75, 86, 95,  
     100, 116, 132, 140, 145, 156, 161, 171,  
     180, 195, 205, 228, 233, 250, 263, 265,  
     270, 276, 281, 298, 306, 314, 322, 330,  
     334, 340, 356, 365  
 crisis management, 2, 168, 260, 264  
 crisis prevention, 5  
 critical infrastructure protection, 1, 6, 331  
  
 criticality analysis, 3  
*Cryptosporidium*, 51, 150, 221, 225, 314  
 cyber attacks, 5, 191  
 cyber security, 187, 190, 193  
  
 Dąbrowa Górnica, 56, 59, 307  
 decontamination, 100, 116, 132, 139,  
     142, 248, 276, 281, 334, 337  
 deethylatrazine, 150  
 differential ion mobility spectrometry,  
     365  
 disinfection, 50, 123, 162, 225, 233, 251,  
     279, 314, 321, 325, 346  
 distribution network, 51, 87, 100, 112,  
     115, 129, 134, 145, 161, 171, 179, 195,  
     205, 216, 276, 307, 320, 331, 365  
 DMS/FAIMS, 365  
 Drinking Water Directive, 330  
 Drinking Water Guidelines, 54  
 Düsseldorf, 171, 180  
 DVGW Technical Guidelines, 4  
  
*E. coli*, 50, 88, 108, 150, 243, 265  
 early warning, 22, 100, 205, 219, 241,  
     333, 357, 365  
 ecosystem, 185  
 emergency response framework, 169  
 EPANET, 137, 208, 210, 216, 220  
  
 faecal contamination, 88, 149  
 Fenton's reaction, 325, 329  
 flow cytometry, 5, 86, 89  
 fluorescence, 122, 162, 226, 243, 295,  
     299, 316  
 fluoroacetamide, 368  
 flushing, 59, 126, 147, 162, 173, 202,  
     208, 256, 280  
 food, 3, 48, 86, 139, 165, 256, 312, 315,  
     334  
 Fukushima, 8  
  
 gamma spectrometry, 65  
 gas chromatography, 74, 231, 291  
 gastroenteritis, 51  
 GC-MS, 230  
 Gideon, 53

- GIS, 136, 270  
groundwater, 49, 53, 71, 86, 140, 148,  
172, 184, 250, 270, 335
- Health Protection Agency, 64, 70, 139,  
250, 258, 334  
herbicide, 164
- ICP-MS, 16, 311  
indium, 14  
industrial solvents, 71  
infrastructure security, 1  
iodine-131, 8, 12, 20  
ion mobility, 365, 372  
ion mobility spectrometry, 162
- jug filter, 64
- kerosene, 164  
*Klebsiella*, 314
- lead, 5, 14, 40, 62, 74, 127, 145, 157,  
169, 190, 194, 208, 243, 250, 294, 300,  
306, 322, 330, 346  
leakage, 92, 153, 162, 204, 357  
*Legionella*, 314  
Lewistite, 291
- mass spectrometry, 74, 231, 311  
maximum contaminant levels, 195  
membrane filtration, 162  
methylmercury, 139, 334  
microchip, 295  
Minamata, 139, 334  
minimum risk levels, 133  
model, 2, 5, 22, 72, 87, 124, 127, 133,  
138, 146, 173, 183, 206, 262, 266, 275,  
299, 317, 347, 365, 369  
monitoring, 5, 21, 41, 47, 77, 86, 92, 103,  
117, 147, 162, 180, 195, 206, 225, 256,  
270, 286, 298, 306, 330, 356, 361  
multi-parameter probe, 101, 115  
multiple barrier, 48
- nerve agents, 162, 287  
Netsim, 206, 210  
neurotoxin, 97  
Nokia, 53, 276  
norovirus, 53  
North Battleford, 51, 52, 55
- Northampton, 53  
nuclear power plant, 8
- Onagawa, 9, 16  
online sensor systems, 129  
OptiQuad, 118  
organisational preparedness, 4  
organophosphorus, 369  
ozonation, 90, 162, 342
- paracetamol, 150  
particle counts, 340  
pathogenic, 145, 153, 181, 213, 225, 265,  
276, 294, 314  
pathogens, 49, 53, 145, 265, 276  
pesticides, 151, 164, 182, 186, 230, 234,  
241, 271, 356  
pipe wall deposits, 116, 121  
plutonium, 10  
Podgorica, 53  
preparedness, 143, 156, 168, 261, 338  
public health, 23, 33, 47, 92, 132, 141,  
145, 156, 169, 197, 205, 228, 248, 250,  
265, 298, 330, 336, 361  
pyrethroids, 230
- quantitative microbiological risk  
assessment, 208
- radioactive, 8, 64, 161  
radioisotopes, 12, 20  
radionuclides, 64, 122  
recovery, 20, 70, 132, 139, 159, 191, 199,  
262, 334  
remediation, 76, 81, 139, 256, 334, 338  
Rhine river 180  
ricin, 287, 293  
risk management, 1, 23, 33, 47, 161, 169,  
262  
Rokkakudo, 10, 11
- SANDOZ, 182  
saxitoxin, 97  
SCADA, 187, 199, 206  
sensors, 23, 94, 100, 118, 122, 161, 205,  
281, 294, 304, 331, 359, 362  
Smart Grid for Water, 199  
sorption, 74, 117, 344, 354  
spectrometric sensor, 94  
STATuS, 3, 161, 233, 241, 284, 298, 300

- strontium-85, 64
- surveillance systems, 5, 257
  
- Tel Aviv, 156
- terrorist, 1, 100, 156, 233, 330
- tetrachloroethylene, 71
- Tohoku District, 8, 20
- toxin, 250
- transport mechanism, 76
- trichloroethylene, 71
- tritium, 164
- tsunami, 8
  
- USEPA, 85, 133, 137, 196, 204
- UV sensors, 5
  
- viral gastroenteritis, 53
  
- Walkerton, 49, 51, 54, 156, 158, 243
- Washington County, 53
- water safety plan, 4, 7, 54
- waterborne outbreaks, 47, 54, 276
- wave speed, 152
- wells, 5, 57, 72, 88, 148, 150, 158, 180, 244, 271, 295
- WHO guidelines, 12, 34
- World Health Organisation, 34, 48, 54, 64, 167, 250, 258, 265, 269
- World Trade Centre, 1
  
- Yersinia*, 213, 277, 278
  
- Zurich, 53, 86, 171