

Index

A

- AAS spectra/analysis 240, 248, 301–2, 312, 318, 334, 335, 390
- Accuracy and precision of methods 467–73
- Acidic cations (Al^{3+} and H^+) 293, 297, 324, 335
- Acid sulfate soil (ASS) 9, 12, 29, 35, 44–5, 205, 355, 356, 427–62
- 1 M KCl extractable S, Ca and Mg 430, 443–5
- 1 M KCl extractable S, Ca and Mg after peroxide oxidation 430, 445
- acid base accounting ‘flow diagrams’ and budgets 429, 432, 433
- acid neutralising capacity – acid reacted and back titration (ANC_{BT}) 430, 448–9
- acid neutralising capacity – from SPOCAS 430, 449–50
- acid tolerant fish and plants 428–9
- action levels of oxidised S 428
- ASS occurrence and mean sea-level height 428
- ASS presence/hazard – field test 430, 450–3
- ASS presence and lime requirement for drain-spoil – field tests 430, 453–9
- background details/properties of 427–9
- chemical changes with soil transport/drying/storage 12
- chemical reactions 427, 431, 448
- chromium reducible S (S_{CR}) method 430, 431–7
- deep sampling 9
- distillation apparatus for S_{CR} 434
- distinctive ‘rotten egg’ smell 429
- effects on Eh/pH interrelationships 29
- exothermic oxidation of pyrite with H_2O_2 439–43, 451–2, 453, 454–5, 457
- field testing kit 454–5
- laboratory and field testing of ASS 429
- laboratory actions based on pH_{OX} 441
- laboratory actions based on pH_{TPA} 441
- method summaries 430
- monosulfides; *see* Monosulfides of Fe
- neutralising value of shell 453
- peroxide residual acid soluble S (S_{RAS}) 430, 447–8
- $\text{pH}_{\text{KCl-ASS}}$ 432, 433, 438, 439, 448
- potential ASS (PASS) 70, 205, 356, 427, 428, 429, 458
- profile distribution of jarosite/pyrite 428
- recognising ASS 428–9
- sample preparation for laboratory analysis 429
- S by 4 M HCl extraction (S_{HCl}), ICPAES finish 430, 445–6
- S by 4 M HCl extraction (S_{HCl}), IC finish 430, 446–7
- S_{CR} method – safety issues 431
- S_{CR} method – sample-weight guidelines 437
- SPOCAS acid trail – net (excess) acid neutralising capacity (a-ANC_E) 430, 439–43
- SPOCAS acid trail – TAA 430, 437–9
- SPOCAS acid trail – TPA 430, 439–43
- testing – laboratory option 428
- testing – field option 429–30
- visible on-site indicators of ASS 428
- Acid-washed sand/silica sand; *see also* Silica sand
- for cleaning grinding mills/grinding heads 209, 369
- for exchangeable bases 305, 306, 309
- for leaching of bases 311, 314, 316, 318, 320
- for soil carbonates 418, 420–1
- Acidflex pump tubes and sleeving 217
- Acidification of soils/extracts 162, 163, 164, 259, 292, 422
- Acids
- dilutions 474–5
- specifications of common acids 474
- Acid soil infertility 151, 356
- Acid volatile substances; *see* Monosulfides of Fe
- Activated charcoal/activated C