**Table S2.** Calculation of Qsp of zinc hydroxide in AMD under SS limestone addition

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Time | pOH | Zn(mol L-1) | [Zn2+][OH-]2 | Ksp |
| 2h | 8.33 | 5.49\*10-5 | 1.20\*10-21 | 1.2\*10-17 |
| 6h | 7.56 | 6.70\*10-6 | 5.08\*10-21 |
| 12h | 7.17 | 4.26\*10-6 | 1.95\*10-20 |
| 24h | 7.03 | 3.28\*10-6 | 2.86\*10-20 |
| 1d | 6.99 | 1.48\*10-6 | 1.55\*10-20 |
| 7d | 6.96 | 1.96\*10-6 | 2.36\*10-20 |
| 14d | 6.87 | 6.58\*10-7 | 1.20\*10-20 |
| 30d | 6.82 | 3.40\*10-7 | 7.79\*10-21 |
| 150d | 6.70 | 1.11\*10-6 | 4.42\*10-20 |
| 300d | 6.54 | 3.31\*10-7 | 2.75\*10-20 |