## **Appendix. A**

129 Slope stability data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **(KN/m3)** | **(Kpa)** | **(°)** | **(°)** | **(m)** |  | **Stability** |
| **Training set and Validation set** | | | | | | | |
| 1 | 18.8 | 14.4 | 25.02 | 19.98 | 30.6 | 0 | 1 |
| 2 | 18.77 | 30.01 | 9.99 | 25.02 | 50 | 0.1 | 1 |
| 3 | 19.97 | 19.96 | 36 | 45.5 | 50 | 0.5 | 0 |
| 4 | 22.38 | 10.05 | 35.01 | 45 | 10 | 0.4 | 0 |
| 5 | 18.77 | 30.01 | 19.98 | 30 | 50 | 0.1 | 1 |
| 6 | 28.4 | 39.16 | 37.98 | 34.98 | 100 | 0 | 1 |
| 7 | 19.97 | 10.05 | 28.98 | 34.03 | 6 | 0.3 | 1 |
| 8 | 13.97 | 12 | 26.01 | 30 | 88 | 0 | 0 |
| 9 | 18.77 | 25.06 | 19.98 | 30 | 50 | 0.2 | 0 |
| 10 | 18.83 | 10.35 | 21.29 | 34.03 | 37 | 0.3 | 0 |
| 11 | 28.4 | 29.41 | 35.01 | 34.98 | 100 | 0 | 1 |
| 12 | 18.77 | 25.06 | 9.99 | 25.02 | 50 | 0.2 | 0 |
| 13 | 16.47 | 11.55 | 0 | 30 | 3.6 | 0 | 0 |
| 14 | 20.56 | 16.21 | 26.51 | 30 | 40 | 0 | 0 |
| 15 | 18.66 | 26.41 | 14.99 | 34.98 | 8.2 | 0 | 0 |
| 16 | 13.97 | 12 | 26.01 | 30 | 88 | 0.5 | 0 |
| 17 | 25.96 | 150.1 | 45 | 49.98 | 200 | 0 | 0 |
| 18 | 18.46 | 25.06 | 0 | 30 | 6 | 0 | 0 |
| 19 | 19.97 | 40.06 | 30.02 | 30 | 15 | 0.3 | 1 |
| 20 | 20.39 | 24.91 | 13.01 | 22 | 10.6 | 0.4 | 1 |
| 21 | 19.6 | 12 | 19.98 | 22 | 12.2 | 0.4 | 1 |
| 22 | 20.96 | 19.96 | 40.01 | 40.02 | 12 | 0 | 1 |
| 23 | 17.98 | 24.01 | 30.15 | 45 | 20 | 0.1 | 0 |
| 24 | 20.96 | 45.02 | 25.02 | 49.03 | 12 | 0.3 | 1 |
| 25 | 22.38 | 99.93 | 45 | 45 | 15 | 0.3 | 1 |
| 26 | 18.77 | 19.96 | 19.98 | 30 | 50 | 0.3 | 0 |
| 27 | 21.78 | 8.55 | 32 | 27.98 | 12.8 | 0.5 | 0 |
| 28 | 21.47 | 6.9 | 30.02 | 31.01 | 76.8 | 0.4 | 0 |
| 29 | 21.98 | 19.96 | 22.01 | 19.98 | 180 | 0.1 | 0 |
| 30 | 18.8 | 57.47 | 19.98 | 19.98 | 30.6 | 0 | 1 |
| 31 | 21.36 | 10.05 | 30.33 | 30 | 20 | 0 | 1 |
| 32 | 18.8 | 14.4 | 25.02 | 19.98 | 30.6 | 0.5 | 0 |
| 33 | 15.99 | 70.07 | 19.98 | 40.02 | 115 | 0 | 0 |
| 34 | 21.98 | 19.96 | 36 | 45 | 50 | 0 | 0 |
| 35 | 19.08 | 10.05 | 9.99 | 25.02 | 50 | 0.4 | 0 |
| 36 | 19.08 | 10.05 | 19.98 | 30 | 50 | 0.4 | 0 |
| 37 | 17.98 | 45.02 | 25.02 | 25.02 | 14 | 0.3 | 1 |
| 38 | 24.96 | 120 | 45 | 53 | 120 | 0 | 1 |
| 39 | 20.39 | 33.46 | 10.98 | 16.01 | 45.8 | 0.2 | 0 |
| 40 | 17.98 | 4.95 | 30.02 | 19.98 | 8 | 0.3 | 1 |
| 41 | 18.97 | 30.01 | 35.01 | 34.98 | 11 | 0.2 | 1 |
| 42 | 21.98 | 19.96 | 22.01 | 19.98 | 180 | 0 | 0 |
| 43 | 20.96 | 30.01 | 35.01 | 40.02 | 12 | 0.4 | 1 |
| 44 | 20.96 | 34.96 | 27.99 | 40.02 | 12 | 0.5 | 1 |
| 45 | 18.46 | 12 | 0 | 30 | 6 | 0 | 0 |
| 46 | 19.97 | 40.06 | 40.01 | 40.02 | 10 | 0.2 | 1 |
| 47 | 19.97 | 19.96 | 36 | 45 | 50 | 0.3 | 0 |
| 48 | 18.77 | 19.96 | 9.99 | 25.02 | 50 | 0.3 | 0 |
| 49 | 18.83 | 24.76 | 21.29 | 29.2 | 37 | 0.5 | 0 |
| 50 | 19.03 | 11.7 | 27.99 | 34.98 | 21 | 0.1 | 0 |
| 51 | 22.38 | 10.05 | 35.01 | 30 | 10 | 0 | 1 |
| 52 | 18.8 | 15.31 | 30.02 | 25.02 | 10.6 | 0.4 | 1 |
| 53 | 18.68 | 26.34 | 15 | 35 | 8.23 | 0 | 0 |
| 54 | 16.5 | 11.49 | 0 | 30 | 3.66 | 0 | 0 |
| 55 | 18.84 | 14.36 | 25 | 20 | 30.5 | 0 | 1 |
| 56 | 18.84 | 57.46 | 20 | 20 | 30.5 | 0 | 1 |
| 57 | 28.44 | 29.42 | 35 | 35 | 100 | 0 | 1 |
| 58 | 28.44 | 39.23 | 38 | 35 | 100 | 0 | 1 |
| 59 | 20.6 | 16.28 | 26.5 | 30 | 40 | 0 | 0 |
| 60 | 14.8 | 0 | 17 | 20 | 50 | 0 | 0 |
| 61 | 14 | 11.97 | 26 | 30 | 88 | 0 | 0 |
| 62 | 25 | 120 | 45 | 53 | 120 | 0 | 1 |
| 63 | 26 | 150.05 | 45 | 50 | 200 | 0 | 0 |
| 64 | 18.5 | 25 | 0 | 30 | 6 | 0 | 0 |
| 65 | 18.5 | 12 | 0 | 30 | 6 | 0 | 0 |
| 66 | 22.4 | 10 | 35 | 30 | 10 | 0 | 1 |
| 67 | 21.1 | 10 | 30.34 | 30 | 20 | 0 | 1 |
| 68 | 22 | 20 | 36 | 45 | 50 | 0 | 0 |
| 69 | 22 | 0 | 36 | 45 | 50 | 0 | 0 |
| 70 | 12 | 0 | 30 | 35 | 4 | 0 | 1 |
| 71 | 12 | 0 | 30 | 45 | 8 | 0 | 0 |
| 72 | 12 | 0 | 30 | 35 | 4 | 0 | 1 |
| 73 | 12 | 0 | 30 | 45 | 8 | 0 | 0 |
| 74 | 23.47 | 0 | 32 | 37 | 214 | 0 | 0 |
| 75 | 16 | 70 | 20 | 40 | 115 | 0 | 0 |
| 76 | 20.41 | 24.9 | 13 | 22 | 10.67 | 0.35 | 1 |
| 77 | 19.63 | 11.97 | 20 | 22 | 12.19 | 0.405 | 1 |
| 78 | 21.82 | 8.62 | 32 | 28 | 12.8 | 0.49 | 0 |
| 79 | 20.41 | 33.52 | 11 | 16 | 45.72 | 0.2 | 0 |
| 80 | 18.84 | 15.32 | 30 | 25 | 10.67 | 0.38 | 1 |
| 81 | 18.84 | 0 | 20 | 20 | 7.62 | 0.45 | 0 |
| 82 | 21.43 | 0 | 20 | 20 | 61 | 0.5 | 0 |
| 83 | 19.06 | 11.71 | 28 | 35 | 21 | 0.11 | 0 |
| 84 | 18.84 | 14.36 | 25 | 20 | 30.5 | 0.45 | 0 |
| 85 | 21.51 | 6.94 | 30 | 31 | 76.81 | 0.38 | 0 |
| 86 | 14 | 11.97 | 26 | 30 | 88 | 0.45 | 0 |
| 87 | 18 | 24 | 30.15 | 45 | 20 | 0.12 | 0 |
| 88 | 23 | 0 | 20 | 20 | 100 | 0.3 | 0 |
| 89 | 22.4 | 100 | 45 | 45 | 15 | 0.25 | 1 |
| 90 | 22.4 | 10 | 35 | 45 | 10 | 0.4 | 0 |
| 91 | 20 | 20 | 36 | 45 | 50 | 0.25 | 0 |
| 92 | 20 | 20 | 36 | 45 | 50 | 0.5 | 0 |
| 93 | 20 | 0 | 36 | 45 | 50 | 0.25 | 0 |
| 94 | 20 | 0 | 36 | 45 | 50 | 0.5 | 0 |
| 95 | 22 | 0 | 40 | 33 | 8 | 0.35 | 1 |
| 96 | 24 | 0 | 40 | 33 | 8 | 0.3 | 1 |
| 97 | 20 | 0 | 24.5 | 20 | 8 | 0.35 | 1 |
| 98 | 18 | 5 | 30 | 20 | 8 | 0.3 | 1 |
| 99 | 26.49 | 150 | 33 | 45 | 73 | 0.15 | 1 |
| 100 | 26.7 | 150 | 33 | 50 | 130 | 0.25 | 1 |
| 101 | 26.89 | 150 | 33 | 52 | 120 | 0.25 | 1 |
| 102 | 26.57 | 300 | 38.7 | 45.3 | 80 | 0.15 | 0 |
| 103 | 26.78 | 300 | 38.7 | 54 | 155 | 0.25 | 0 |
| 104 | 26.81 | 200 | 35 | 58 | 138 | 0.25 | 1 |
| 105 | 26.43 | 50 | 26.6 | 40 | 92.2 | 0.15 | 1 |
| 106 | 26.7 | 50 | 26.6 | 50 | 170 | 0.25 | 1 |
| 107 | 26.8 | 60 | 28.8 | 59 | 108 | 0.25 | 1 |
| **Test set** | | | | | | | |
| 108 | 22.4 | 10 | 35 | 45 | 10 | 0.4 | 0 |
| 109 | 20 | 20 | 36 | 45 | 50 | 0.5 | 0 |
| 110 | 20 | 0.1 | 36 | 45 | 50 | 0.25 | 0 |
| 111 | 20 | 0.1 | 36 | 45 | 50 | 0.5 | 0 |
| 112 | 22 | 0 | 40 | 33 | 8 | 0.35 | 1 |
| 113 | 24 | 0 | 40 | 33 | 8 | 0.3 | 1 |
| 114 | 20 | 0 | 24.5 | 20 | 8 | 0.35 | 1 |
| 115 | 18 | 0 | 30 | 20 | 8 | 0.3 | 1 |
| 116 | 27 | 40 | 35 | 43 | 420 | 0.25 | 1 |
| 117 | 31.3 | 68 | 37 | 49 | 200.5 | 0.29 | 0 |
| 118 | 26.18 | 44.93 | 59 | 31.5 | 172.98 | 0.1 | 0 |
| 119 | 26.62 | 31.78 | 0 | 42.72 | 51.48 | 0.4 | 0 |
| 120 | 27.3 | 26 | 31 | 50 | 92 | 0.25 | 0 |
| 121 | 27 | 32 | 33 | 42.2 | 289 | 0.25 | 1 |
| 122 | 27.3 | 31.5 | 29.7 | 41 | 135 | 0.25 | 1 |
| 123 | 25 | 46 | 35 | 47 | 443 | 0.25 | 1 |
| 124 | 25 | 46 | 35 | 44 | 435 | 0.25 | 1 |
| 125 | 25 | 46 | 35 | 46 | 432 | 0.25 | 1 |
| 126 | 26 | 150 | 45 | 30 | 200 | 0.25 | 1 |
| 127 | 18.5 | 12 | 0 | 30 | 6 | 0.25 | 0 |
| 128 | 22.4 | 10 | 35 | 30 | 10 | 0.25 | 1 |
| 129 | 22 | 20 | 36 | 45 | 50 | 0.25 | 0 |