

373 **Table 1 Contents of highway slopes artificial soil pH under slope aspects and**  
374 **landslide**

| Slope aspects | NL-          | L-          |
|---------------|--------------|-------------|
| E             | 7.00±0.03 Aa | 6.71±0.60 a |
| S             | 7.38±0.63 Aa | 6.80±0.15 a |
| W             | 7.12±0.24 Aa | 6.40±0.63 a |
| N             | 6.93±0.15 Aa | 6.82±0.11 a |

375 Notes: Mean±SD, n=3. Different lowercase letters in a same row represent significant  
376 difference between non-landslide and landslide under the aspect  
377 Different capital letters in a same column represent significant variation under different  
378 aspect slope (0.05). NL-E: non-landslide-east-facing slope; NL-S: non-  
379 south-facing slope; NL-W: non-landslide-west-facing slope; NL-N: non-landslide-no  
380 facing slope; L-E: landslide-east-facing slope; L-S: landslide-south-facing sl  
381 landslide-west-facing slope; L-N: landslide-north-facing slope.

**Table 2 Contents of highway slopes artificial soil nutrient characteristics under slope aspects and landslide**

| Indexes                   | Slope aspects | NL-           | L-          |
|---------------------------|---------------|---------------|-------------|
| SOM (g·kg <sup>-1</sup> ) | E             | 12.90±0.74 Ba | 7.47±0.30 b |
|                           | S             | 18.22±2.34 Aa | 6.03±0.13 b |
|                           | W             | 19.99±2.64 Aa | 6.29±0.68 b |
|                           | N             | 9.44±0.67 Ba  | 8.22±2.85 a |
| AN (mg·kg <sup>-1</sup> ) | E             | 6.93±0.04 Ba  | 6.86±0.05 a |
|                           | S             | 13.92±0.04 Aa | 6.86±0.04 b |
|                           | W             | 12.06±2.32 Aa | 6.92±0.02 b |
|                           | N             | 15.47±2.26 Aa | 6.92±0.06 b |
| TP (g·kg <sup>-1</sup> )  | E             | 2.07±0.01 Aa  | 2.02±0.02 b |
|                           | S             | 2.07±0.02 Aa  | 1.87±0.21 a |
|                           | W             | 1.72±0.34 Ba  | 1.81±0.24 a |
|                           | N             | 2.07±0.02 Aa  | 2.05±0.03 a |
| AP (mg·kg <sup>-1</sup> ) | E             | 5.11±0.96 BCb | 11.87±1.42  |
|                           | S             | 6.19±0.40 ABb | 9.88±0.75 a |
|                           | W             | 7.03±0.84 Ab  | 9.5±1.03 a  |
|                           | N             | 4.27±0.35 Ca  | 4.53±0.94 a |
| AK (mg·kg <sup>-1</sup> ) | E             | 21.00±2.77 Ca | 22.79±1.55  |
|                           | S             | 42.78±3.78 Ba | 26.15±4.53  |
|                           | W             | 47.34±5.28 Ba | 32.24±1.38  |
|                           | N             | 60.99±4.15 Aa | 35.05±4.17  |

Notes: Mean±SD, n=3. Different lowercase letters in a same row represent significant difference between non-landslide and landslide under 0.05 in the aspect. Different capital letters in a same column represent significant variation under different aspect slope(*p*< 0.05). SOM: soil organic matter; AN: alkali-hydrolyzale nitrogen; TP: total phosphorus; AP: available phosphorus; AK: available kalium. NL-E: non-landslide-east-facing slope; NL-S: non-landslide-south-facing slope; NL-W: non-landslide-west-facing slope; NL-N: non-landslide-north-facing slope; L-E: landslide-east-facing slope; L-S: landslide-south-facing slope; L-W: landslide-west-facing slope; L-N: landslide-north-facing slope.