Supplemental Table 2

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Core Name and Depth (cm)** | **TOC**  **(wt. %)** | **TIC**  **(wt. %)** | **TN**  **(wt. %)** | **C/N**  **(atomic)** | **BiSi**  **(wt. %)** | **%Sand** | **%Silt** | **%Clay** | **Mean Particle Size (μm)** |
| NM1-0 | 4.64 | 0.73 | 0.41 | 13 | 16 | 14.83 | 69.94 | 15.23 | 36.62 |
| NM1-5 | 4.55 | 0.74 | 0.40 | 13 | 17 | 13.38 | 71.69 | 14.93 | 33.32 |
| NM1-10 | 4.33 | 0.74 | 0.46 | 11 | 16 | 11.55 | 71.75 | 16.70 | 37.71 |
| NM1-15 | 5.44 | 0.24 | 0.37 | 18 | 15 | 10.81 | 75.97 | 13.22 | 33.69 |
| NM1-20 | 4.97 | 1.03 | 0.38 | 15 | 10 | 10.59 | 76.44 | 12.97 | 31.63 |
| NM1-25 | 4.96 | 1.15 | 0.37 | 16 | 11 | 11.02 | 75.26 | 13.72 | 31.42 |
| NM1-30 | 5.30 | 1.12 | 0.40 | 16 | 16 | 14.94 | 73.28 | 11.78 | 35.34 |
| NM1-35 | 4.82 | 0.92 | 0.29 | 20 | 16 | 13.44 | 75.34 | 11.22 | 33.87 |
| NM1-45 | 10.85 | 0.44 | 0.61 | 21 | 21 | 6.97 | 80.47 | 12.56 | 28.02 |
| NM1-50 | 3.57 | 0.20 | 0.29 | 15 | 23 | 7.08 | 76.55 | 16.37 | 25.93 |
| NM1-55 | 3.22 | 0.03 | 0.22 | 17 | 17 | 14.59 | 73.51 | 11.90 | 39.05 |
| NM1-60 | 2.72 | 0.02 | 0.22 | 15 | 20 | 13.38 | 72.14 | 14.48 | 37.79 |
| NM1-65 | 1.62 | 0.19 | 0.12 | 16 | 11 | 45.17 | 47.01 | 7.82 | 95.34 |
| NM1-73 | 0.60 | 0.26 | 0.05 | 14 | 5 | 87.08 | 10.00 | 2.92 | 172.24 |
| NM1-80 | 0.18 | 0.02 | 0.02 | 11 | 4 | 80.66 | 14.72 | 4.62 | 152.41 |
| NM1-90 | 0.07 | 0.01 | n.d. | n.d. | n.d. | 89.50 | 8.33 | 2.17 | 172.52 |
| NM1-100 | 0.05 | 0.00 | n.d. | n.d. | n.d. | 91.73 | 6.49 | 1.78 | 177.44 |
| NM1-110 | 0.03 | 0.00 | n.d. | n.d. | n.d. | 89.30 | 8.47 | 2.23 | 166.57 |
| NM1-125 | 0.02 | 0.00 | n.d. | n.d. | n.d. | 88.87 | 8.78 | 2.35 | 167.72 |
| NM1-135 | 0.03 | 0.00 | n.d. | n.d. | n.d. | 91.05 | 7.11 | 1.84 | 177.58 |
| NM1-145 | 0.05 | 0.00 | n.d. | n.d. | n.d. | 83.35 | 12.75 | 3.90 | 154.24 |
| NM1-155 | 0.04 | 0.00 | n.d. | n.d. | n.d. | 85.90 | 10.56 | 3.54 | 159.50 |
| NM1-165 | 0.06 | 0.00 | n.d. | n.d. | n.d. | 82.92 | 13.21 | 3.87 | 150.78 |
| NM1-175 | 0.12 | 0.00 | n.d. | n.d. | n.d. | 67.53 | 25.52 | 6.95 | 132.06 |
| NM3-0 | 2.80 | 0.64 | 0.21 | 15 | 31 | 7.00 | 74.56 | 18.44 | 23.84 |
| NM3-5 | 2.61 | 0.61 | 0.21 | 14 | 30 | 6.55 | 78.46 | 14.99 | 24.34 |
| NM3-10 | 3.42 | 0.69 | 0.25 | 16 | 27 | 3.20 | 76.75 | 20.05 | 18.81 |
| NM3-15 | 2.64 | 0.78 | 0.19 | 16 | 28 | 2.45 | 73.03 | 24.53 | 15.29 |
| NM3-20 | 1.79 | 0.80 | 0.11 | 20 | 29 | 1.56 | 70.44 | 28.00 | 14.13 |
| NM3-25 | 1.20 | 0.98 | 0.10 | 14 | 29 | 9.00 | 70.98 | 20.02 | 27.81 |
| NM3-30 | 1.25 | 0.98 | 0.10 | 14 | 32 | 2.59 | 78.62 | 18.79 | 17.71 |
| NM3-35 | 1.78 | 0.94 | 0.12 | 17 | 28 | 7.70 | 80.95 | 11.36 | 26.61 |
| NM3-40 | 1.65 | 1.52 | 0.10 | 19 | 26 | 11.39 | 72.68 | 15.93 | 28.88 |
| NM3-45 | 1.25 | 1.31 | 0.10 | 15 | 24 | 16.93 | 68.70 | 14.37 | 38.19 |
| NM3-50 | 0.80 | 0.96 | 0.09 | 11 | 16 | 42.41 | 45.16 | 12.43 | 85.91 |
| NM3-60 | 0.14 | 0.00 | 0.01 | 25 | 7 | 91.57 | 6.54 | 1.89 | 177.07 |
| NM3-70 | 0.01 | 0.04 | n.d. | n.d. | n.d. | 89.40 | 6.47 | 4.13 | 162.86 |
| NM3-80 | 0.04 | 0.10 | n.d. | n.d. | n.d. | 83.80 | 11.26 | 4.94 | 149.94 |
| NM3-90 | 0.04 | 0.11 | n.d. | n.d. | n.d. | 88.29 | 7.84 | 3.87 | 163.55 |
| NM3-95 | 0.03 | 0.11 | n.d. | n.d. | n.d. | 83.69 | 14.01 | 2.30 | 165.44 |
| NM3-110 | 0.02 | 0.07 | n.d. | n.d. | n.d. | 77.82 | 18.55 | 3.63 | 155.35 |
| NM3-120 | 0.03 | 0.06 | n.d. | n.d. | n.d. | 81.20 | 16.11 | 2.69 | 152.29 |
| NM3-130 | 0.03 | 0.05 | n.d. | n.d. | n.d. | 90.34 | 7.69 | 1.97 | 171.46 |
| NM3-140 | 0.02 | 0.04 | n.d. | n.d. | n.d. | 88.91 | 8.53 | 2.56 | 166.13 |
| NM3-150 | 0.03 | 0.04 | n.d. | n.d. | n.d. | 79.08 | 17.27 | 3.65 | 151.26 |
| NM3-155 | 0.04 | 0.03 | n.d. | n.d. | n.d. | 77.64 | 18.20 | 4.15 | 145.70 |
| NM3-160 | 0.15 | 0.14 | n.d. | n.d. | n.d. | 37.50 | 49.82 | 12.68 | 66.83 |
| NM3-180 | 0.12 | 0.09 | n.d. | n.d. | n.d. | 36.40 | 51.60 | 12.00 | 70.37 |
| NM3-190 | 0.13 | 0.04 | n.d. | n.d. | n.d. | 41.58 | 47.18 | 11.24 | 76.13 |
| NM3-200 | 0.06 | 0.02 | n.d. | n.d. | n.d. | 47.23 | 42.41 | 10.36 | 79.16 |
| NM3-210 | 0.04 | 0.04 | n.d. | n.d. | n.d. | 84.15 | 10.72 | 5.13 | 146.23 |
| NM3-220 | 0.08 | 0.04 | n.d. | n.d. | n.d. | 58.33 | 32.07 | 9.59 | 98.60 |
| NM3-230 | 0.05 | 0.03 | n.d. | n.d. | n.d. | 79.86 | 15.84 | 4.29 | 83.00 |
| NM4-0 | 1.87 | 0.48 | 0.18 | 12 | 14 | 33.27 | 54.86 | 11.87 | 64.72 |
| NM4-5 | 1.37 | 0.46 | 0.13 | 12 | 16 | 31.70 | 58.26 | 10.04 | 63.62 |
| NM4-9 | 0.94 | 0.63 | 0.10 | 11 | 21 | 15.47 | 67.95 | 16.58 | 38.02 |
| NM4-13 | 0.43 | 0.63 | 0.04 | 14 | 10 | 39.94 | 43.18 | 16.88 | 76.08 |
| NM4-19 | 0.21 | 0.26 | 0.02 | 12 | 12 | 51.61 | 36.62 | 11.77 | 106.41 |
| NM4-23 | 0.22 | 0.63 | 0.02 | 11 | 9 | 45.76 | 47.37 | 6.87 | 82.12 |
| NM4-29 | 0.10 | 0.09 | 0.01 | 13 | 6 | 81.13 | 15.85 | 3.02 | 159.43 |
| NM4-33 | 0.16 | 0.22 | 0.02 | 12 | 3 | 53.20 | 41.85 | 4.95 | 98.53 |
| NM4-43 | 0.05 | 0.00 | n.d. | n.d. | n.d. | 88.02 | 10.28 | 1.70 | 156.62 |
| NM4-53 | 0.08 | 0.06 | n.d. | n.d. | n.d. | 77.88 | 19.16 | 2.96 | 144.06 |
| NM4-63 | 0.07 | 0.00 | n.d. | n.d. | n.d. | 84.99 | 13.03 | 1.98 | 150.76 |
| NM4-73 | 0.06 | 0.00 | n.d. | n.d. | n.d. | 87.36 | 10.52 | 2.12 | 162.31 |
| NM4-83 | 0.04 | 0.00 | n.d. | n.d. | n.d. | 88.07 | 9.49 | 2.44 | 166.22 |
| NM4-93 | 0.04 | 0.00 | n.d. | n.d. | n.d. | 88.94 | 9.15 | 1.91 | 167.17 |
| NM4-98 | 0.04 | 0.00 | n.d. | n.d. | n.d. | 86.93 | 10.50 | 2.57 | 159.38 |
| NM4-100 | 0.23 | 0.06 | n.d. | n.d. | n.d. | 74.39 | 17.67 | 7.94 | 140.34 |
| NM4-113 | 0.18 | 0.40 | n.d. | n.d. | n.d. | 29.30 | 60.24 | 10.46 | 60.66 |
| NM4-123 | 0.18 | 0.21 | n.d. | n.d. | n.d. | 42.37 | 49.37 | 8.26 | 85.04 |
| NM4-133 | 0.15 | 0.05 | n.d. | n.d. | n.d. | 40.41 | 48.17 | 11.42 | 78.57 |
| NM4-143 | 0.17 | 0.00 | n.d. | n.d. | n.d. | 39.17 | 48.35 | 12.48 | 76.33 |
| NM4-153 | 0.17 | 0.02 | n.d. | n.d. | n.d. | 43.43 | 45.50 | 11.07 | 85.64 |
| NM4-163 | 0.15 | 0.22 | n.d. | n.d. | n.d. | 43.62 | 44.17 | 12.21 | 87.66 |