Table S1: Sample locations and elevations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sample Name | Latitude | Longitude | Elevation (m) | Depth (m) |
|
| A1 |  50° 19' 54.83" N |  99° 40' 13.15" W | 601 | 7.62 |
| A2 |  50° 19' 54.83" N |  99° 40' 13.15" W | 601 | 7.33 |
| B |  50° 26' 59.31" N |  99° 32' 38.06" W | 621 | 1.04 |
| C1 | 50° 19' 31.99" N  | 99° 27' 14.97” W | 369 | 0.45 |
| C2 | 50° 19' 31.1” N | 99° 27' 14.72" W | 369 | 0.75 |
| D | 50° 20' 51.7” N | 99° 26' 37.15” W | 371 | 2.41 |
| E1 | 50° 15' 26.1” N | 99° 15' 36.41" W | 328 | 0.75 |
| E2 | 50° 15' 26.1” N | 99° 15' 36.41" W | 328 | 1.77 |
| F | 49° 11' 2.4" N | 98° 10' 12" W | 358 | 1.28 |
| G | 49° 12' 3.6" N | 98° 11' 2.4" W | 366 | 1.05 |
| GB-A | 50° 44’ 57.27” N |  97° 03’ 47.19” W |  244 | 1.01 |
| GB-B | 50° 45’ 21.12” N | 97° 04’ 0.19” W | 244 | 1.69 |
| MOD-LIK-WPG | 50° 38’ 02.292” N | 96° 59’ 00.78” W | 217 | 0.05 |
| 155 km E of Morden (UNL-237) | 49o 13.679’ N | 95o 55.357’ W | 388 | 1.0 |
| 155 km E of Morden (UNL-238) | 49o 15.014’ N  | 95o 54.176’ W | 378 | 0.9 |