

APPENDIX 4. Chemical Analysis

| Sample Number | Site Number | Horizon Depth cm | Coarse sand % | Fine Sand % | Silt % | Clay % | Loss on Acid Treatment % | 1:5 Suspension | | | Total Soluble Salts % w/w | Chloride as NaCl % | Exchangeable Bases | | | | Calcium:Magnesium Ratio | Percent Sodium | Sum of Four Cations meq/100g | Oxidisable Org. Carbon % w/w | Organic Matter % w/w | Moisture Retention | Dry Aggregate Dispersion | Remoulded Dispersion | Dry Aggregate Slaking | |
|---------------|-------------|------------------|---------------|-------------|--------|--------|--------------------------|----------------|---------------------|---------|---------------------------|--------------------|--------------------|--------------------|-----------------|--------------------|-------------------------|----------------|------------------------------|------------------------------|----------------------|--------------------|--------------------------|----------------------|-----------------------|--|
| | | | | | | | | pH Water | pH Calcium Chloride | EC ds/m | | | Calcium meq/100g | Magnesium meq/100g | Sodium meq/100g | Potassium meq/100g | | | | | | | | | | |
| 998/97 | WW1 | 0-10 | 10.3 | 80.6 | 3.0 | 3.5 | 0.2 | 6.1 | 5.5 | 0.10 | 0.03 | | 2.4 | 0.4 | 0.1 | 0.4 | 6.0 | 3.0 | 3.3 | 0.84 | 1.6 | 5.3 | | | | |
| 999/97 | WW1 | 10-25 | 10.6 | 84.2 | 1.5 | 2.5 | 0.1 | 7.2 | 6.2 | <0.05 | 0.02 | | | | | | | | | | | 1.4 | | | | |
| 1000/97 | WW1 | 25-55 | 7.0 | 40.8 | 1.5 | 46.0 | 1.0 | 8.7 | 8.0 | 0.16 | 0.05 | | 9.6 | 4.6 | 0.8 | 1.8 | 2.1 | 5.0 | 16.8 | | 18.0 | | NLNL | CDCM | CO | |
| 1001/97 | WW1 | 55-105 | 8.0 | 65.2 | 2.0 | 22.5 | 0.4 | 9.3 | 8.2 | 0.15 | 0.05 | | 3.6 | 3.4 | 1.1 | 1.1 | 1.1 | 12.0 | 9.2 | | 9.8 | | MDST | CDCM | CO | |
| 1002/97 | WW1 | 105-140 | | | | | | 9.7 | 8.5 | 0.20 | 0.06 | | | | | | | | | | | | STCM | CDCM | CO | |
| 1003/97 | WW1 | 140+ | | | | | | 9.8 | 8.7 | 0.46 | 0.14 | <0.05 | | | | | | | | | | | STCM | STST | CO | |
| 1004/97 | WW2 | 0-5 | 26.4 | 54.2 | 4.5 | 10.0 | 0.5 | 6.4 | 5.4 | 0.07 | 0.02 | | 3.0 | 1.0 | 0.2 | 0.7 | 3.0 | 4.0 | 4.9 | 1.5 | 2.9 | 6.3 | | | | |
| 1005/97 | WW2 | 5-25 | 21.5 | 44.5 | 4.0 | 26.0 | 0.7 | 7.8 | 6.5 | 0.10 | 0.03 | | 5.8 | 4.8 | 1.8 | 1.0 | 1.2 | 14.0 | 13.4 | | 12.7 | | STCM | CDCM | CO | |
| 1006/97 | WW2 | 25-45 | 20.2 | 38.6 | 3.5 | 32.0 | 0.7 | 8.8 | 7.5 | 0.16 | 0.05 | | 5.8 | 7.3 | 3.4 | 1.1 | 0.8 | 20.0 | 17.6 | | 16.2 | | STCM | CDCM | CO | |
| 1007/97 | WW2 | 45-80 | | | | | | 9.8 | 9.0 | 0.72 | 0.22 | 0.08 | 3.3 | 9.6 | 7.1 | 1.5 | 0.4 | 33.0 | 21.5 | | | | STCM | STCM | CO | |
| 1008/97 | WW2 | 80-110 | | | | | | 9.8 | 8.8 | 0.73 | 0.22 | 0.09 | | | | | | | | | | | NLNL | MDMD | CO | |
| 1009/97 | WW2 | 110-190 | | | | | | 9.7 | 8.8 | 0.72 | 0.22 | 0.09 | | | | | | | | | | | SLSL | MDST | CO | |
| 1010/97 | WW2 | 190+ | | | | | | 9.3 | 8.4 | 0.66 | 0.20 | 0.09 | | | | | | | | | | | MDST | MDCM | CO | |
| 1011/97 | WW3 | 0-10 | 27.9 | 44.5 | 6.0 | 17.0 | 1.1 | 7.9 | 7.4 | 0.21 | 0.07 | | 10.0 | 0.6 | 0.1 | 1.4 | 16.7 | 1.0 | 12.1 | 1.2 | 2.3 | 8.1 | NLNL | SLSL | PA | |
| 1012/97 | WW3 | 9406 | 16.5 | 32.6 | 3.5 | 39.5 | 2.4 | 8.3 | 7.7 | 0.11 | 0.04 | | 23.0 | 1.7 | 0.2 | 1.0 | 13.6 | 1.0 | 25.9 | | | 17.6 | NLNL | NLNL | PA | |
| 1013/97 | WW3 | 25-35 | 11.7 | 18.6 | 2.5 | 29.0 | 33.2 | 8.6 | 7.9 | 0.12 | 0.04 | | 19.0 | 1.6 | 0.2 | 0.5 | 11.9 | 1.0 | 21.3 | | | 18.5 | NLNL | NLNL | PA | |
| 1014/97 | WW3 | 35-110 | | | | | | 9.1 | 8.1 | 0.11 | 0.04 | | | | | | | | | | | | NLNL | NLNL | PA | |
| 1015/97 | WW3 a* | 110-200 | | | | | | 9.8 | 9.0 | 0.42 | 0.13 | <0.05 | 3.9 | 13.0 | 8.5 | 1.4 | 0.3 | 32.0 | 26.8 | | | | STST | STST | CO | |
| 1016/97 | WW3 b* | 110-200 | | | | | | 9.9 | 8.7 | 0.46 | 0.14 | <0.05 | | | | | | | | | | | SLMD | STST | PA | |
| 1017/97 | WW4A | 0-10 | 16.0 | 38.0 | 9.0 | 29.5 | 1.6 | 8.1 | 7.5 | 0.15 | 0.05 | | 19.0 | 2.3 | 0.3 | 1.9 | 8.3 | 2.0 | 23.5 | 1.3 | 2.5 | 13.6 | NLNL | NLNL | PA | |
| 1018/97 | WW4A | 10-50 | 8.8 | 18.8 | 6.0 | 56.5 | 3.2 | 8.7 | 8.0 | 0.14 | 0.05 | | 23.0 | 8.8 | 1.4 | 1.3 | 2.7 | 4.0 | 34.5 | | | 26.9 | SLSL | SLSL | PA | |
| 1019/97 | WW4A | 50-80 | 4.8 | 10.8 | 5.5 | 35.0 | 30.4 | 9.7 | 8.5 | 0.41 | 0.13 | <0.05 | 6.2 | 1.0 | 6.0 | 1.0 | 0.6 | 25.0 | 24.2 | | | 22.0 | NLSL | SLSL | PA | |
| 1020/97 | WW4A | 80-130 | | | | | | 9.7 | 9.0 | 0.60 | 0.18 | <0.05 | 4.2 | 1.0 | 9.4 | 1.1 | 0.4 | 37.0 | 25.7 | | | | SLMD | STST | CO | |
| 1021/97 | WW4A | 130-185 | | | | | | 9.6 | 8.8 | 0.63 | 0.19 | <0.05 | | | | | | | | | | | SLMD | STST | CO | |
| 1022/97 | WW4B | 10-50 | 12.7 | 26.0 | 5.5 | 38.0 | 12.1 | 8.7 | 8.0 | 0.12 | 0.04 | | 21.0 | 4.0 | 0.5 | 1.2 | 5.3 | 2.0 | 26.7 | | | 19.0 | NLNL | NLNL | PA | |
| 1023/97 | WW4B | 50-140 | 5.6 | 13.4 | 3.5 | 29.5 | 38.8 | 9.1 | 8.1 | 0.14 | 0.05 | | 12.0 | 6.3 | 0.7 | 0.8 | 1.9 | 4.0 | 19.8 | | | 17.7 | NLNL | NLNL | PA | |