|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SED. UNITS** | **SEDIMENT** | **Organisms** | **Sedimentary structure** | **CaCO3 (Average %)** | **Organ. mat. (Average %)** |
| **UNIT IV.**  **Samples 5-1** | Silt and clay. Bioclastic sand. Grey colour. | Foraminifera (*Ammonia tepida* (Cuhsman), authocthonous). Abundant freshwater gastropods (*Bithynia* sp., *Radix balthica*, *Gyraulus crista*, etc.). Freshwater ostracods: *Darwinula stevensoni* (Brady & Robertson), *Pseudocandona* sp., *Pseudocandona* cf. *marchica*  Hartwig, *Paralimnocythere psammophila* (Flössner), charophytes oogonia (*Lamprothamnium papulosum* (Wallr.)). Brackish bivalves. Very good conservation. | Carbonate precipitation. Rhizotubules. Oxides precipitation, and pyrite | 78.8 | 7.74 |
| **SUBUNIT IIIg.**  **Sample 9-6** | Peat. Black colour. | Abundant oligohalines gastropods (*Mercuria* sp., *Theodoxus* sp., *Bytinia* sp.). Charophytes oogonia. Ostracods:  *Darwinula stevensoni* (Brady & Robertson), *Candona* sp., *Bradleycypris obliqua* Brady. Plant remains. |  | 66.8 | 19.6 |
| **SUBUNIT IIIf.**  **Sample 17-10** | Silt and clay. Bioclastic sand. Beige colour | Abundant charophytes thalos, oogonia (*Lamprothamnium papulosum* (Wallr.)). Freshwater ostracods: *Darwinula stevensoni* (Brady & Robertson), *Heterocypris* sp., *Paralimnocythere psammophila* (Flössner), *Candona* sp., *Bradleycypris obliqua* Brady. Gastropods (*Mercuria* sp., *Radix balthica*). Plant remains, especially sample 15. Good conservation. | Rhizotubules. Carbonate precipitation. | 88.7 | 7.44 |
| **SUBUNIT IIIe.**  **Sample 19-18** | Peat. Black colour. | Some Charophytes oogonia. Fragments gastropods. Ostracods. |  | 46.8 | 19.8 |
| **SUBUNIT IIId.**  **Sample 25-20** | Silt and clay. Bioclastic sand. Beige colour | Abundant Charophytes thalos, oogonia (*Lamprothamnium papulosum* (Wallr.)). Freshwater ostracods: *Darwinula stevensoni* (Brady & Robertson), *Heterocypris* sp., *Paralimnocythere psammophila* (Flössner), *Candona* sp., *Bradleycypris obliqua* Brady. Gastropods (*Mercuria* sp., *Radix balthica*). Plant remains. Good conservation. | Carbonate precipitation. Rhizotubules | 85.2 | 8.47 |
| **SUBUNIT IIIc.**  **Sample 26** | Peat. Black colour. | Some Charophytes oogonia. |  | 62.6 | 21.9 |
| **SUBUNIT IIIb.**  **Sample 28-27** | Silt and clay. Bioclastic sand. Light brown colour. | Freshwater ostracods: *Darwinula stevensoni* (Brady & Robertson), *Paralimnocythere psammophila* (Flössner). Abundant charophytes thalos, oogonia (*Lamprothamnium papulosum* (Wallr.)). Gastropods (*Mercuria* sp., *Radix balthica*). Plant remains. Good conservation. |  | 75.5 | 5.7 |
| **SUBUNIT IIIa. Samples 29** | Peat. Black colour. | Charophytes oogonia, thalos (*Lamprothamnium papulosum* (Wallr.)). Good conservation. | Rhizotubules | 39.4 | 19 |
| **UNIT II. Samples 32-29** | Silt and clay. Brown grey colour. | Foraminifera (*A. tepida, Criboelphidium excavatum*). Fragments oligohalines molluscs (bivalves and gastropods), brown grey sediment filler. Charophytes. Plant remains at the bottom. Poor conservation. | Carbonate precipitation.  Rhizotubules | 56 | 1.65 |
| **UNIT I.**  **Samples 42-33** | Silt and clay, carbonate sand. White colour. | Some fragments charophytes oogonia and fragments mollusc bivalves and gastropods. Poor conservation.  Plant remains at the top. | Massive carbonate precipitation. Ferruginous concretions. | 79.1 | 0.45 |