

LEGEND	
Conglomerate.....	
Limestone / Dolomitic limestone.....	
Carbonaceous shale.....	
Coal.....	
Siderite concretion bed or calcrete concretions.....	
Bentonite bed.....	
Oolitic bed.....	
Stromatolite bed or individual stromatolites.....	
Lens-shaped bed.....	
Discontinuous scour / gutter fills.....	
Fault.....	
Fractures with slickensides (either structural or pedogenic).....	
Fining-upward Trend.....	
Coarsening-upward Trend.....	
Paleocurrent Indicators.....	
Copper Sulfide Mineralization.....	
Erosive base with rip-ups and granules.....	
Scoured Base.....	
Ball and Pillow.....	
Rip-up Interclasts.....	
Breccia / Flat Pebble Conglomerate.....	
Trough Cross bedding.....	
Ripple Cross Lamination.....	
Climbing Ripples.....	
Low Angle Lamination.....	
Planar Tabular Crossbedding.....	
Inclined Bedding Surfaces (IBS) or Lateral Accretion Surfaces (LA).....	
Inclined Heterolithic Stratification (IHS).....	
Contorted Lamination.....	
Hummocky Cross Stratification (HCS).....	
Water Escape Structure.....	
Roots.....	
Bioturbation / Burrowing.....	
Vertical Burrows (eg. Skolithos).....	
Desiccation Cracks.....	
Fossil shells (pelecypod, gastropod, brachiopod).....	
Dinosaur bone fragments.....	
Carbonized wood fragments.....	
Gypsum nodule bed.....	
Evaporite crystal molds.....	

UPPER ORDOVICIAN/LOWER SILURIAN - SOUTHERN ONTARIO

Upper QUEENSTON FMS

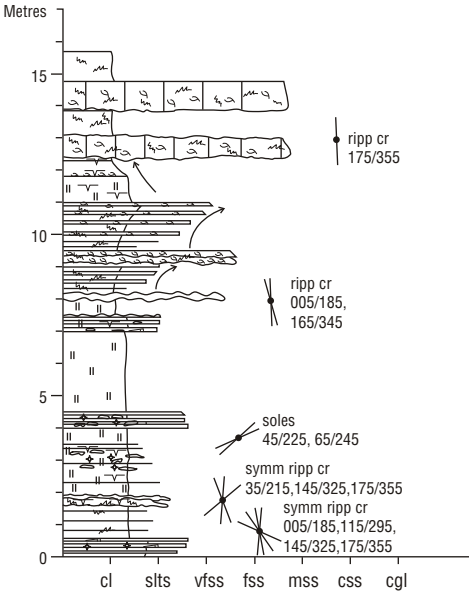
Big Bay Roadcut, 2 km E of village of Big Bay

41A/15 White Cloud Island 060604

Lat. 44°47'50"N Long. 80°55'25"W

General strike 330°-340°

Dip <1°SW



- greenish grey mudstone, calcareous, bioturbated, poorly exposed.
- dark grey fine- to medium-crystalline limestone, sharp base, burrowed, few bryozoan fossils (these are same limestone beds as at Sutton Pt).

- greenish bioturbated mudstone.
- dark grey fine- to medium-crystalline limestone, sharp base with desiccation, bioturbated, rippled, few bryozoan fossils.

- f-up reddish to greenish mud. upper surface has desiccation cracks.
- green and red mottled pedogenic silty mudstone, desiccation cracks, upper surface has brachiopod shells.
- c-up seq thinly interbedded greenish bioturbated mudstone and grey bioclastic very fine-crystalline limestone with brachiopods and bryozoans.

- grey bioclastic fine-crystalline limestone, clast supported, erosive bases, burrowed, green mud matrix brachiopods and bryozoans.
- c-up sequence thinly interbedded greenish silty mudstone and muddy siltstone, gradational boundaries, bioturbated, slts:mud=1:3.
- greenish grey very fine-to fine-calcareenite, erosive base with green shale rip-ups, rippled top.
- red pedogenic mudstone.
- bundle of greenish thin calcsiltite beds with sharp bases, rip-ups, ripples, dessiccation cracks, brachiopods shells, separated by pedogenic reddish mudstone.

- alternating red/green pedogenic silty mudstone, all green at top but mostly red

- bundle of red siltstone to very fine-grained ss separated by red pedogenic mudstone, masses of fibrous orange gypsum.
- red pedogenic mudstone, even, uniform, blocky.
- alternating red and green silty mudstone, blocky, uniform, pedogenic, desiccation cracks, few thin red siltstone beds with sharp bases, large bedding plane masses of orange gypsum.

- several grey calcsiltite with erosive bases, rip-ups, horizontal lamination, symmetrical ripples, burrows, desiccation cracks.
- red/green mottled silty mudstone, with few thin siltstone beds with burrows.
- thinly interbedded grey calcsiltite to very fine-calcareenite and green silty mudstone, sharp bases, horizontal lamination, burrows, evaporitic crystals in vugs.