

- thinly interbedded grey mudstone and very fine-grained sandstone to siltstone, beds 0-2 cm, some burrowing, ss:slts=1:10.

- very slightly c-up sequence of grey silty mudstone and thin 0-5 cm very fine-grained sandstone to siltstone beds with sharp bases and rxl, bioturbation, ss:slts=1:5 at top.

- slightly c-up sequence of thinly interbedded grey silty mudstone and thin 0-3 cm very fine-grained sandstone to siltstone beds with sharp bases, horizontal burrows, rxl, fairly sharp tops, ss:slts=1:10 at base, 1:5 at top.

BLUE MOUNTAIN Fm

- grey to dark grey mudstone, very uniform, all bioturbated, few darker laminated zones near base, a few very thin siltstone to very fine-grained sandstone.

- grey mudstone with few 2-5 cm sharp based very fine-grained sandstone beds with rxl, bioturbated, ss:slts=1:10.

- grey mudstone, few thin sharp based very fine-grained sandstone beds, few horizons tiny sandstone filled Chondrites burrows, rxl.

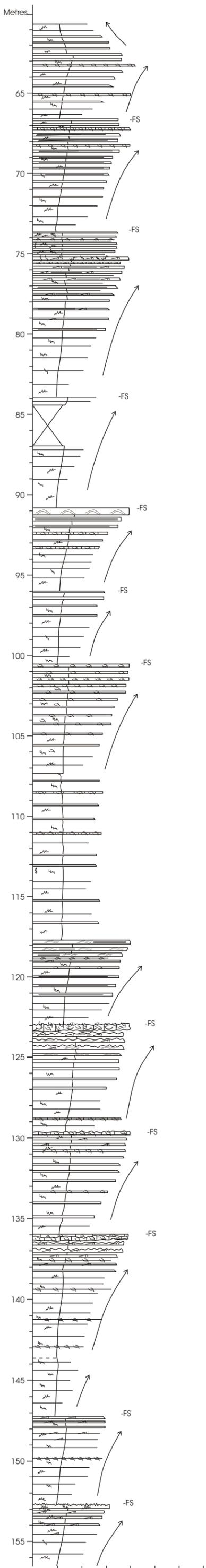
- grey mudstone, uniform, bioturbated, slightly c-up trend, few thin dark grey beds near base, few laminated beds, near top is more greenish grey and has few very thin very fine-grained sandstone beds.

Collingwood Fm

- thinly laminated dark grey mudstone, uniform, no burrows, sharp irregular base and top.
- dark grey mudstone, uniform, well bioturbated.
- fining-up sequence thinly interbedded dark grey calcareous shale and pale grey very fine crystalline limestone, burrowed, gradational base and top.
- slight f-up sequence of thinly interbedded dark grey calcareous mudstone, and pale laminated limestone.

LINDSAY Fm

- pale grey fine crystalline limestone, argillaceous, nodular, mottled, thick bedded, separated by burrowed muddy laminae.



- f-up sequence thinly interbedded grey mudstone and very fine- to fine-grained sandstone, ss:slts=1:8 at top.

- c-up sequence thinly interbedded grey mudstone and very fine- to fine-grained sandstone with several thick bioclastic calcarenite beds, ss:slts=2:1 at top.

- c-up sequence thinly interbedded grey mudstone and very fine- to fine-grained sandstone with many thicker bioclastic calcarenite beds up to 15 cm - sandstone beds have sharp bases and tops, horizontal and LAD lamination, burrows - fossil fragments project above calcarenite bed tops - ss:slts=2:1 at top.

- thinly interbedded mudstone and very fine-grained sandstone, heavily bioturbated, up to 5 cm thick, ss:slts=2:1, one thin calcarenite.

- c-up sequence interbedded grey silty mudstone and very fine- to fine-grained beds - sandstone are sharp based up to 20 cm with horizontal and rxl lamination ss:slts=3:1 at top with abundant sandstone beds - sharp top with sandstone filled burrows and one thin burrowed bioclastic bed.

- c-up sequence interbedded grey mudstone and thin very fine-grained sandstone - (several boxes missing).

- c-up sequence interbedded grey silty mudstone and thick very fine- to fine-grained sandstone with few bioclastic beds, sandstone up to 25 cm with sharp bases, horizontal lamination and HCS.

- c-up sequence interbedded grey mudstone and thin very fine-grained sandstone with horizontal lamination.

GEORGIAN
BAY
Fm

- c-up sequence grey silty mudstone and bioclastic calcarenite up to 15 cm thick, all sandy beds, floating fossil fragments in mudstone, horizontal *Planolites* burrows.

- thinly interbedded grey silty mudstone, with thin very fine-grained sandstone and few calcarenite beds ss:slts=1:5, mudstone more greenish upward.

- c-up sequence interbedded grey silty mudstone and very fine- to fine-grained sandstone, sandstone beds up to 15 cm with sharp bases, horizontal lamination and HCS, vertical spreite burrows - ss:slts=2:1 at top - few bioclastic calcarenite beds near top.

- c-up sequence interbedded grey muddy siltstone and very fine- to fine-grained sandstone with sharp bases, horizontal/LAD lamination, some rxl and several HCS, ss:slts=1:2 at top, one thin calcarenite near base, upper bed is 28 cm sharp based sandy calcarenite with txb and large fossil fragments which project above top.

- c-up sequence interbedded grey mudstone and very fine-grained sandstone beds and bioclastic calcarenite - up to 5 cm thick with sharp bases, 2/3 very fine-grained sandstone, 1/3 calcarenite - top bed is 5 cm sandy calcarenite with huge brachiopod/bryozoan fragments projecting above.

- c-up sequence of interbedded grey mudstone and grey very fine- to fine-grained sandstone, numerous thin bioclastic calcarenite beds - sandstone are 1-8 cm with sharp scoured bases, sharp to gradational tops, horizontal and rxl - ss:slts=1:10 at base, 1:2 at top - bioclastic beds muddy with floating brachiopod/crinoid/bryozoan fragments - top bed is amalgamated calcarenite.

- c-up sequence interbedded grey mudstone and thin very fine-grained sandstone to siltstone, gradational top.

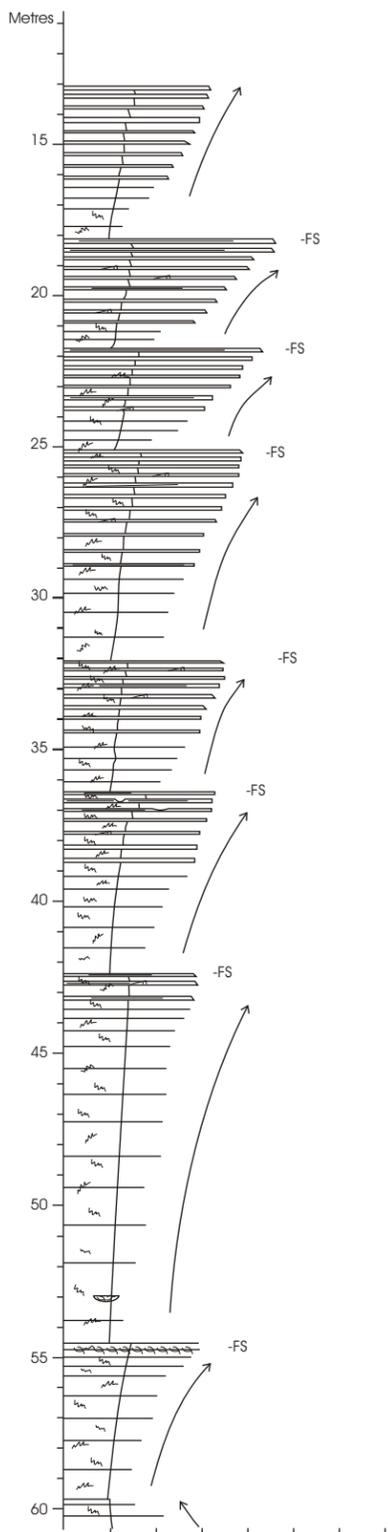
- c-up sequence interbedded grey mudstone and thin very fine-grained sandstone to siltstone, 1-3 cm, sharp bases with small horizontal burrows, more gradational tops, rxl, ss:slts=1:10 at base, 1:2 at top, one thin bioclastic calcarenite in mid.

BLUE
MOUNTAIN
Fm

- c-up sequence of thinly interbedded grey to dark grey mudstone and rare thin very fine-grained sandstone to siltstone beds with sharp bases and more gradational tops, mostly rxl, ss:slts=1:4 at top - uppermost bed is carbonate cemented with sharp irregular top and burrows.

UPPER ORDOVICIAN - SOUTHERN ONTARIO
 LINDSAY/BLUE MOUNTAIN/GEORGIAN BAY RMS
 OGS 83-2 Clarkson, lot 33, conc 3, Peel Co (City of Mississauga), near refinery and LK Ontario (1983)
 30M/5 Hamilton-Burlington 109168
 Lat. 43°30' N Long. 79°38' W
 Strike 335°, dip <1° SW

(depths corrected for drilling angle 60° from horizontal to give true thicknesses.)



- c-up sequence thinly interbedded greenish grey mudstone and thin very fine-grained sandstone beds, no bioclastic beds, reddish tinge two and top, top of sequence not present.

- c-up sequence thinly interbedded greenish grey mudstone and thin very fine-grained sandstone beds, no bioclastic beds, slight reddish tinge in upper beds.

- c-up sequence thinly interbedded greenish grey mudstone and thin very fine-grained sandstone beds, no bioclastic beds, slight reddish tinge in upper beds.

- c-up sequence thinly interbedded greenish grey mudstone and thin very fine-grained sandstone beds, no bioclastic beds, slight reddish tinge in upper beds.

- c-up sequence thinly interbedded greenish grey mudstone and thin very fine-grained sandstone beds, no bioclastic beds, ss:slts=1:3 at top, large horizontal burrows.

- c-up sequence thinly interbedded greenish grey mudstone and thin very fine-grained sandstone beds, no bioclastic beds, ss:slts=1:2 at top, large horizontal burrows.

GEORGIAN
 BAY
 Fm

- slightly c-up sequence thinly interbedded greenish grey mudstone and thin very fine-grained sandstone beds, no bioclastic beds, ss:slts=1:5 at top - several sandstone beds have large shale filled resting burrows.

- slightly c-up thinly interbedded greenish grey mudstone and very thin very fine-grained sandstone beds up to 3 cm thick, no bioclastic beds - ss:slts=1:5 at top - near base is single small bioclastic filled gutter cast.

- slightly c-up sequence interbedded greenish grey mudstone and very thin very fine-grained sandstone beds, few very thin bioclastic beds at top - horizontal sandstone filled Chondrites burrows, ss:slts=1:8 at top.