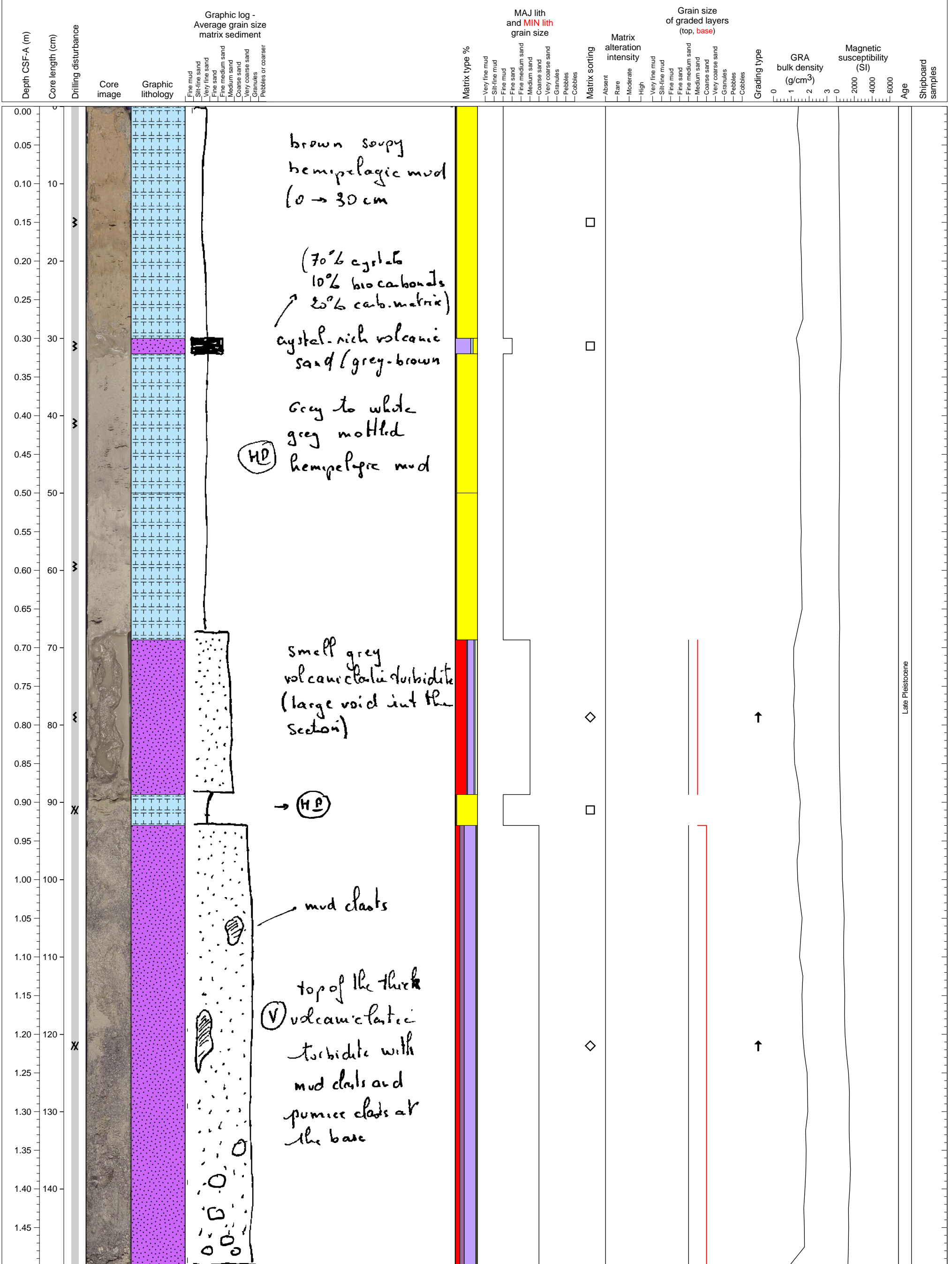
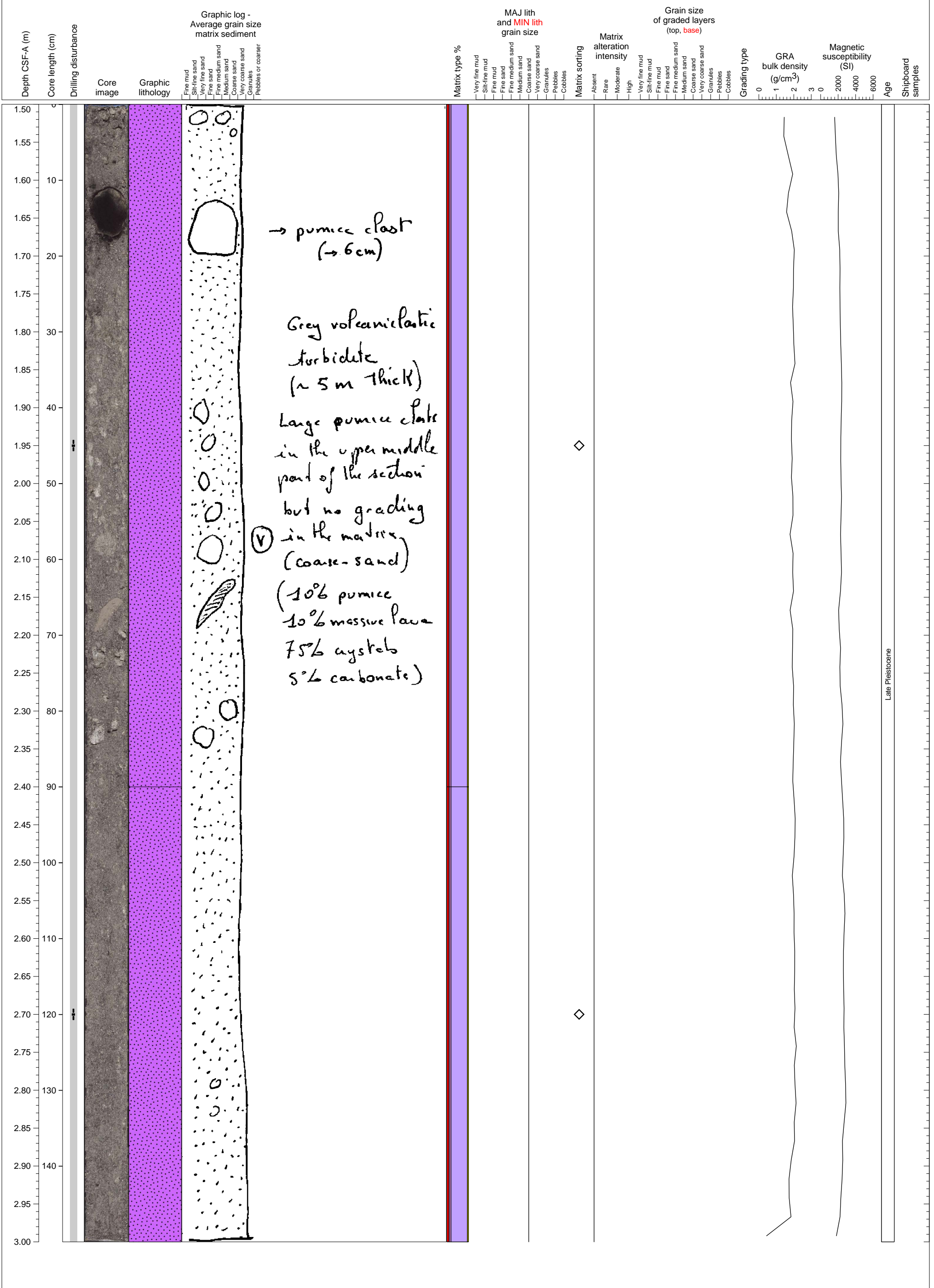


Hemipelagic fine mud overlying a part of volcanoclastic turbidite.



Volcaniclastic turbidite with pumice clasts.



→ pumice clast (→ 6cm)

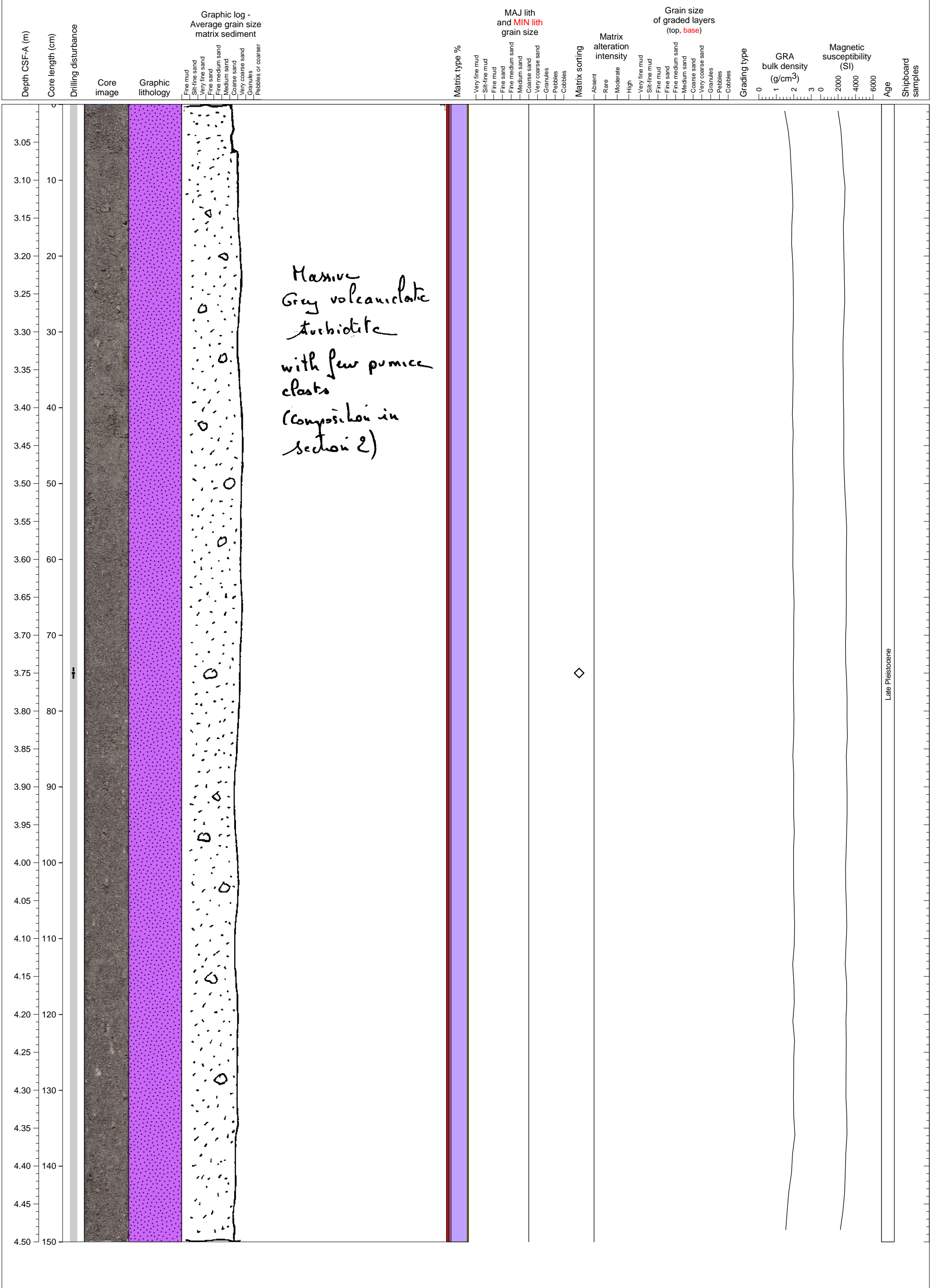
Grey volcaniclastic turbidite (~ 5 m thick)

Large pumice clast in the upper middle part of the section but no grading in the matrix

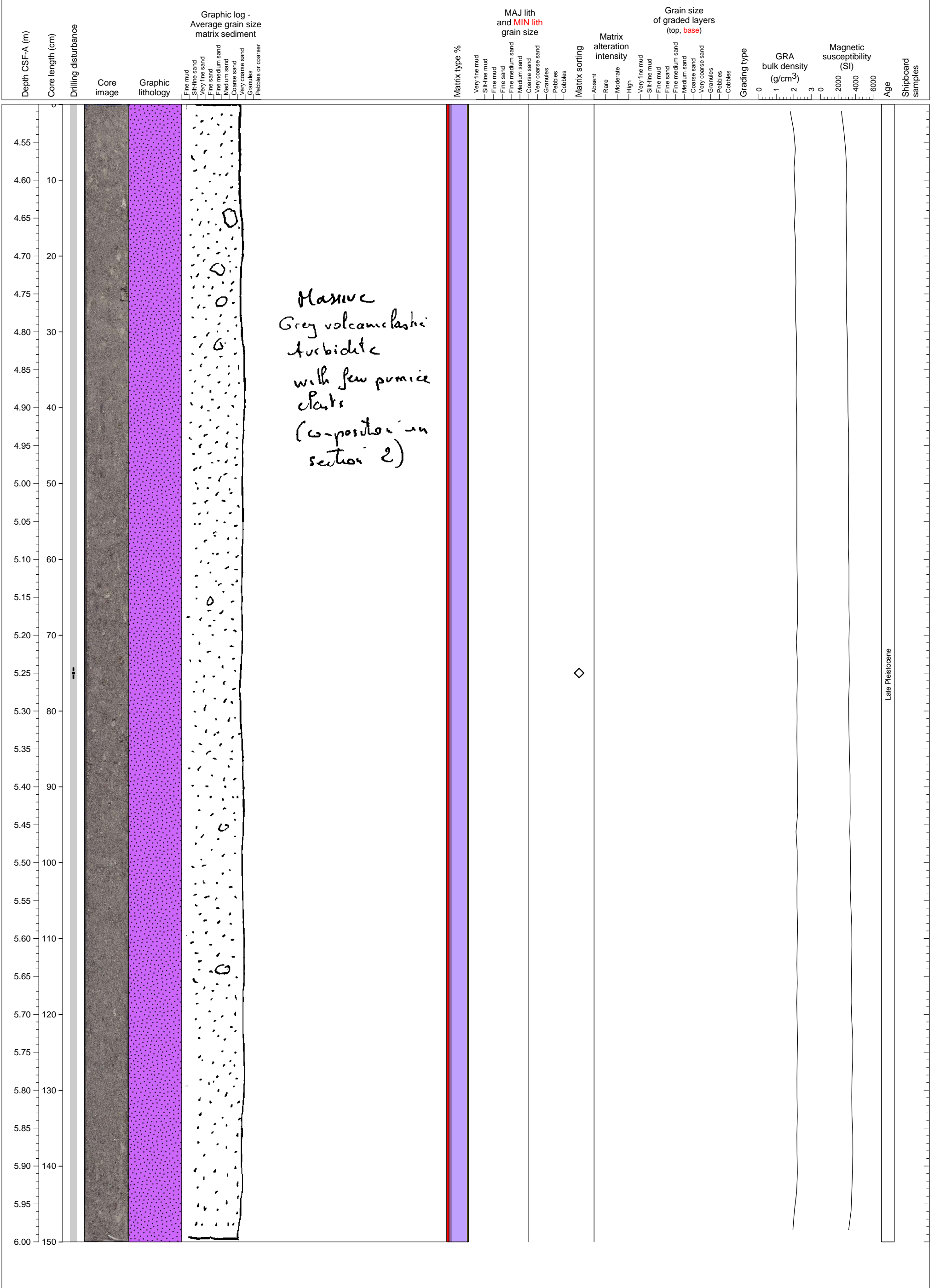
(10% pumice, 10% massive lava, 75% crystals, 5% carbonate)

Late Pleistocene

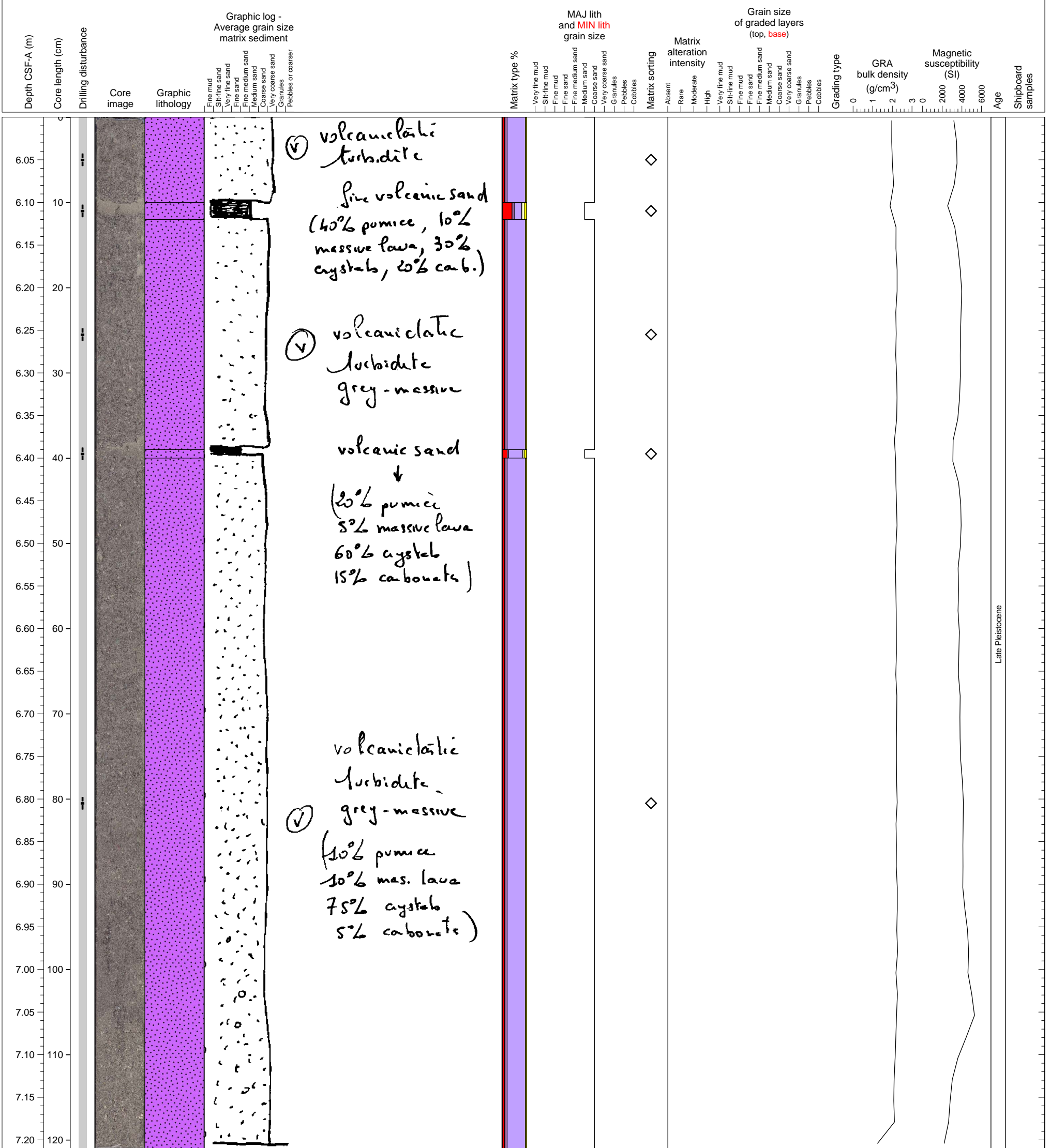
Volcaniclastic turbidite with some pumice clasts up to 2 cm.



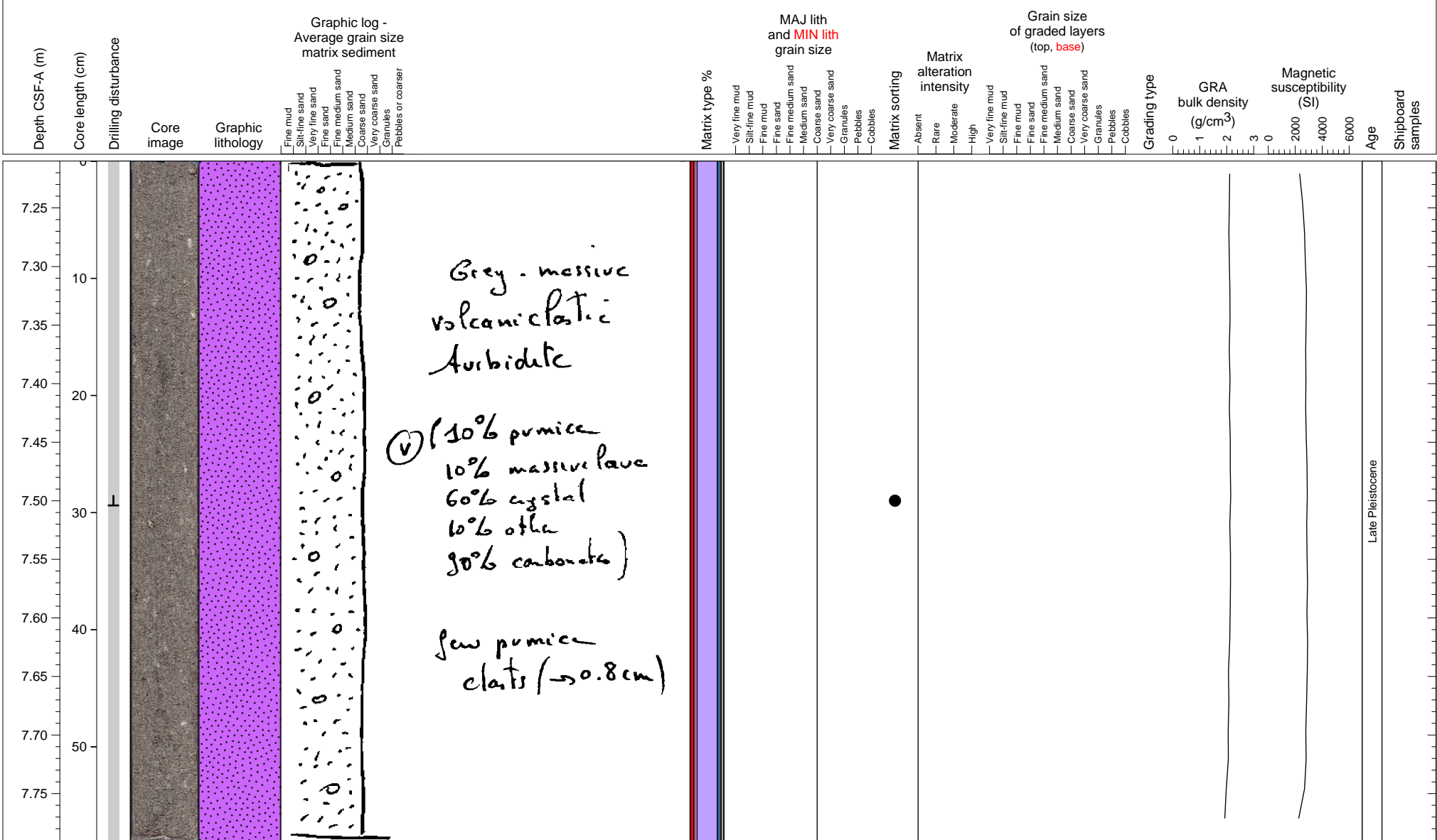
Volcaniclastic turbidite with pumice clasts.



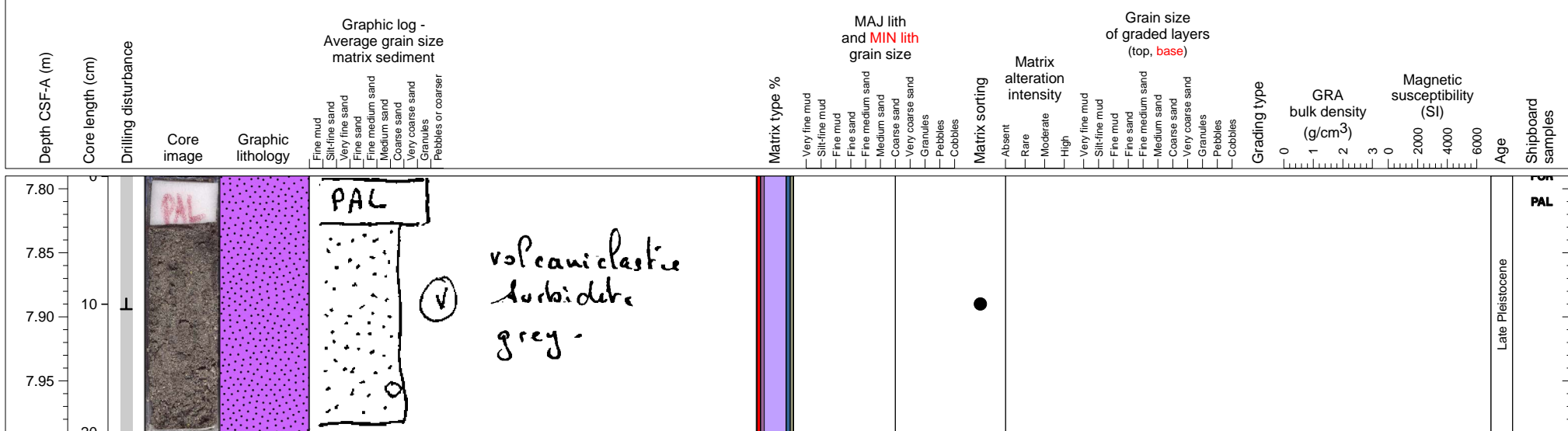
Three units of volcanoclastic turbidites.



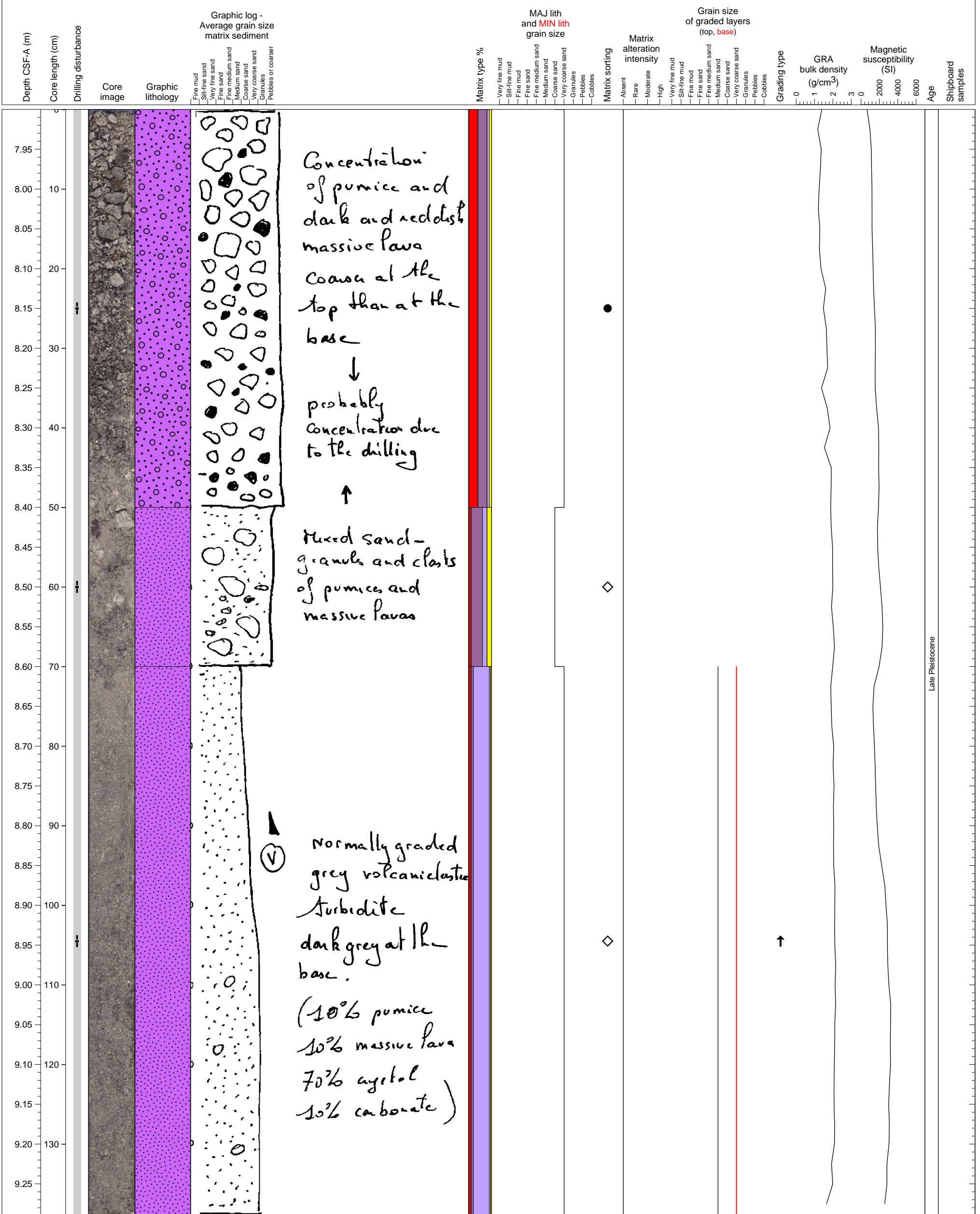
Volcaniclastic turbidite with granule pumice clast



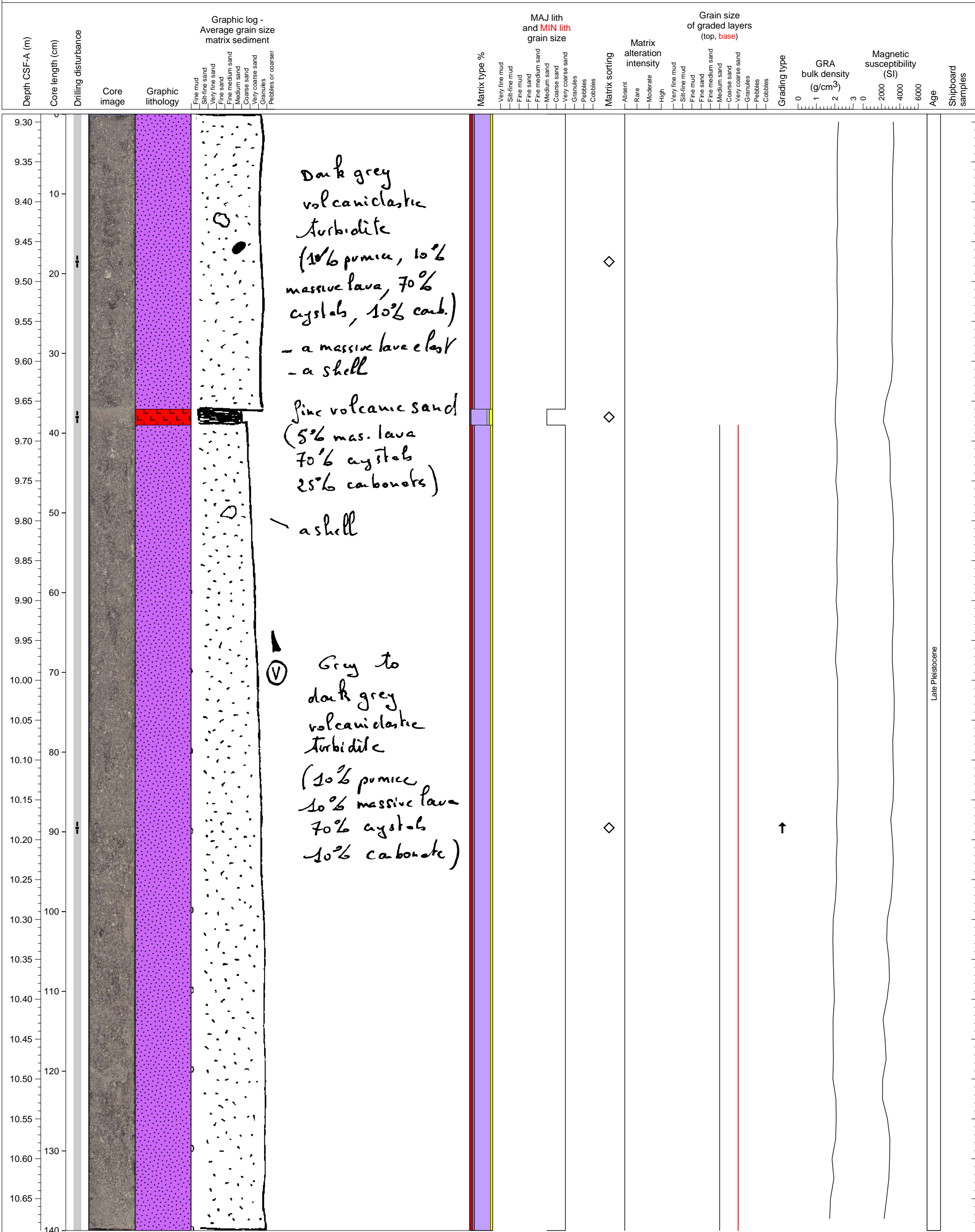
Volcaniclastic turbidite



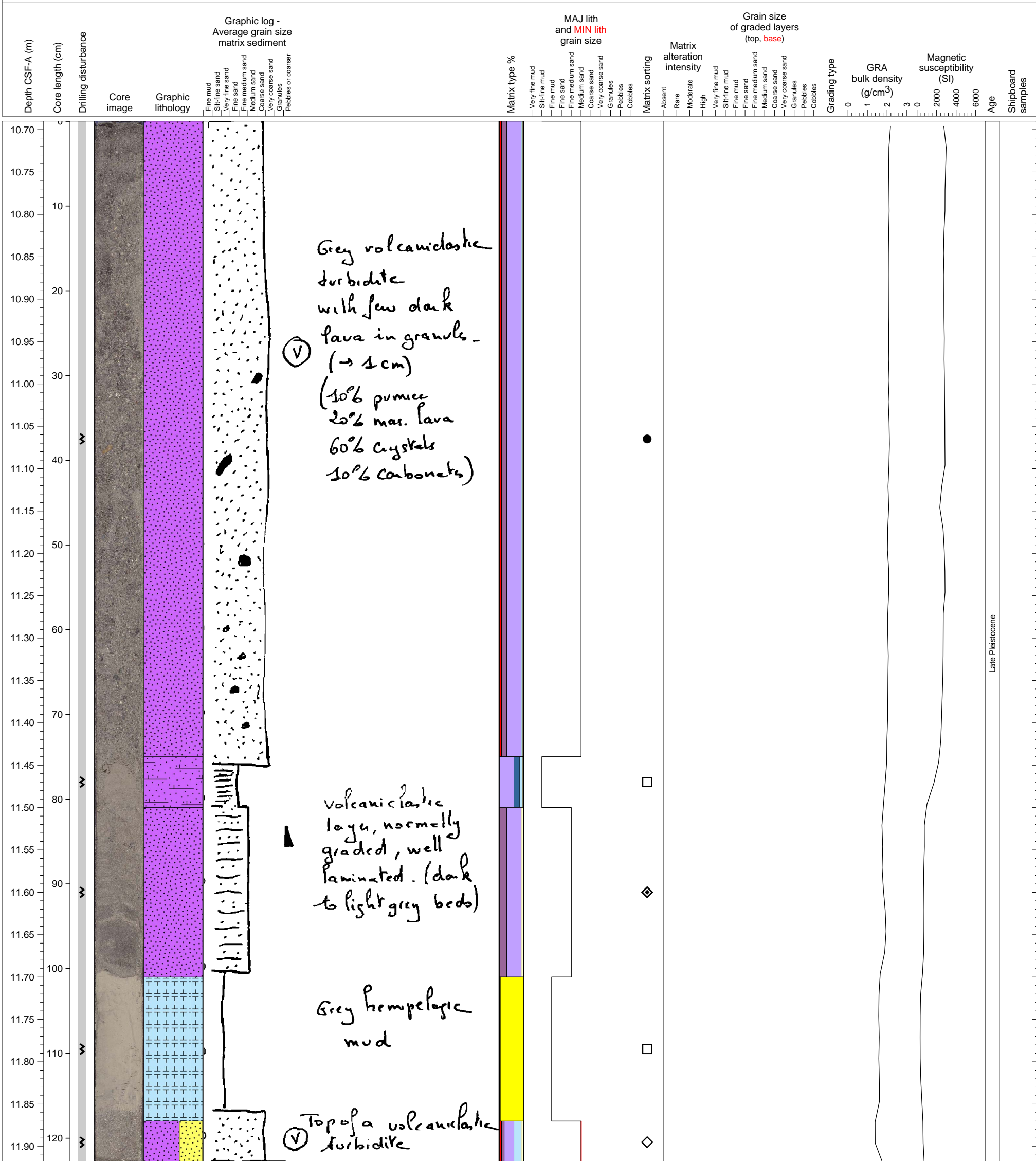
Volcaniclastic turbidite, normally graded with pumice clasts. Top 50 cm may be reworked by drilling - very coarse.



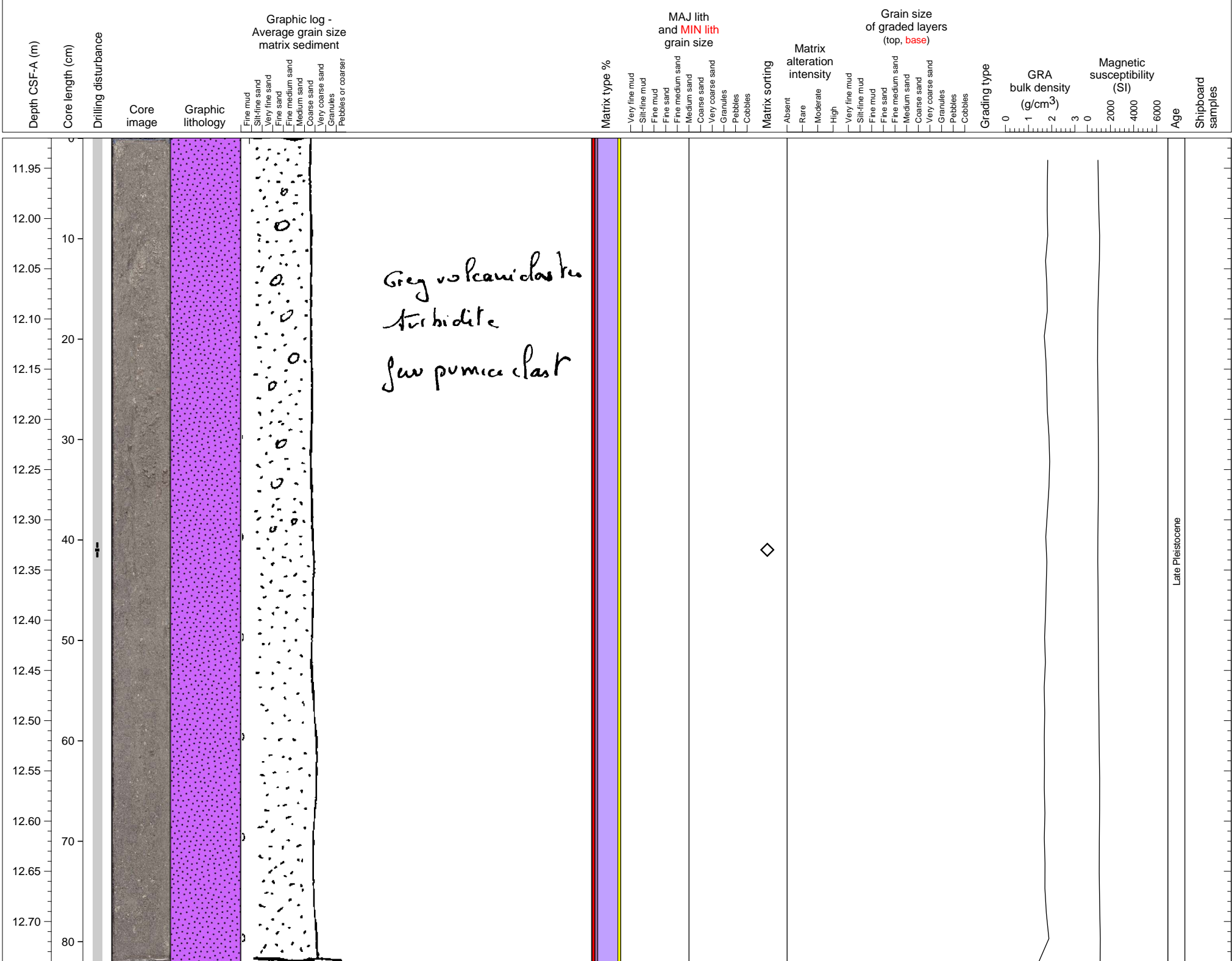
Two volcanoclastic turbidites separated by a thin ash fall.



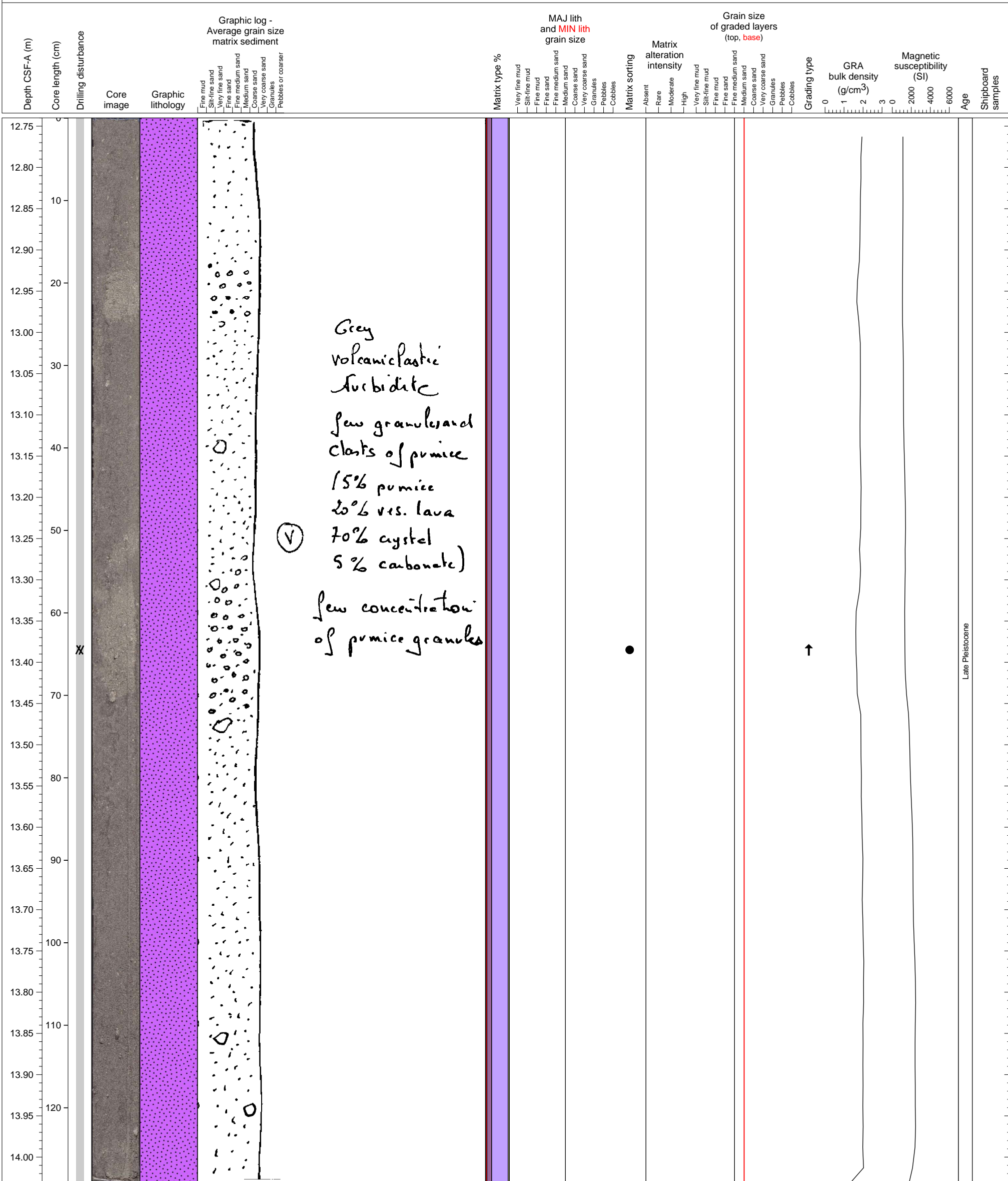
A part of thick volcanoclastic turbidite with hemiplegic fines at the bottom of the section



Volcaniclastic turbidite with pumice clasts



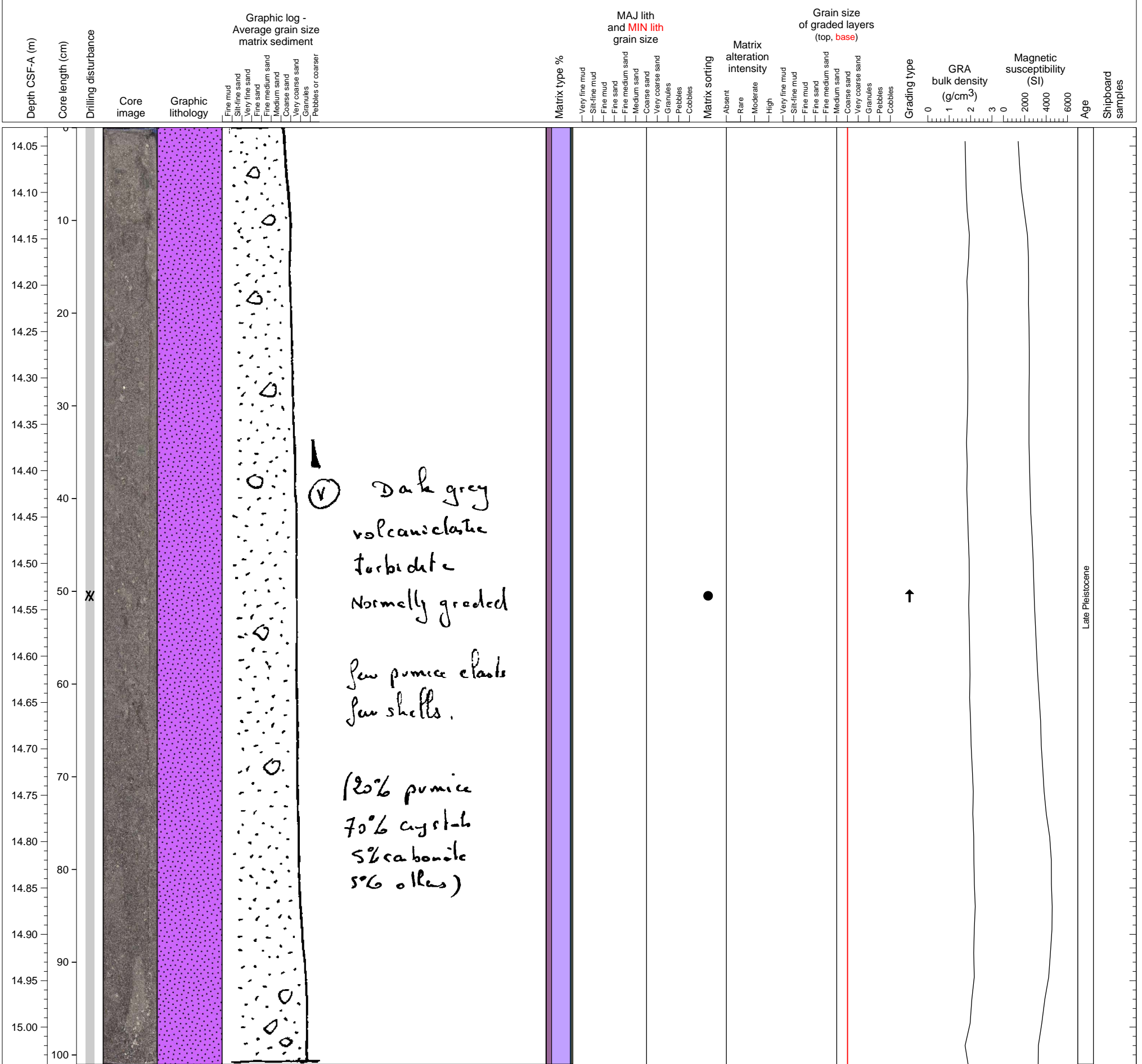
Volcaniclastic turbidite continued to section 6a.



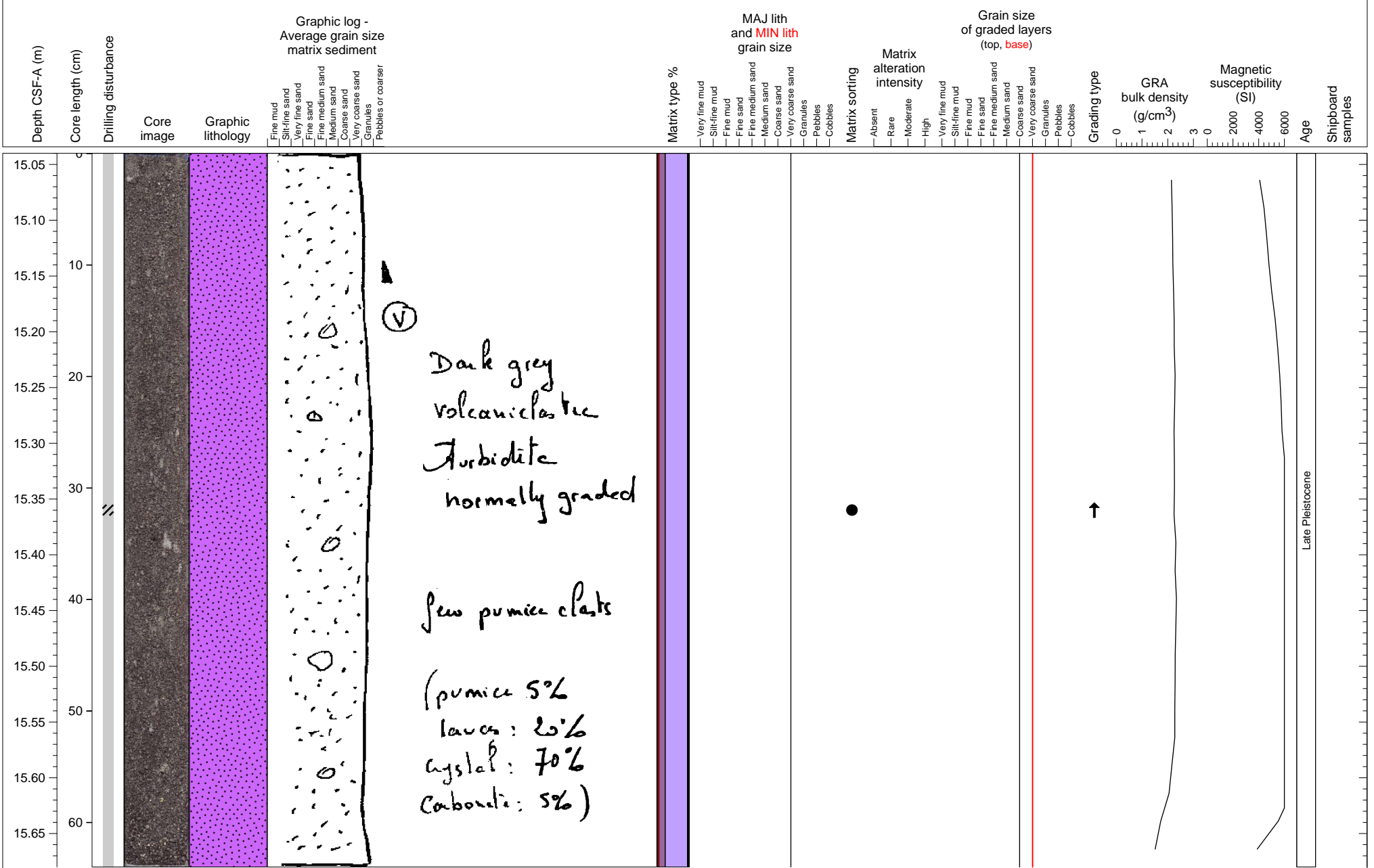
Grey volcaniclastic turbidite
 few granules and clasts of pumice
 15% pumice
 20% vs. lava
 70% crystal
 5% carbonate
 few concentration of pumice granules

Late Pleistocene

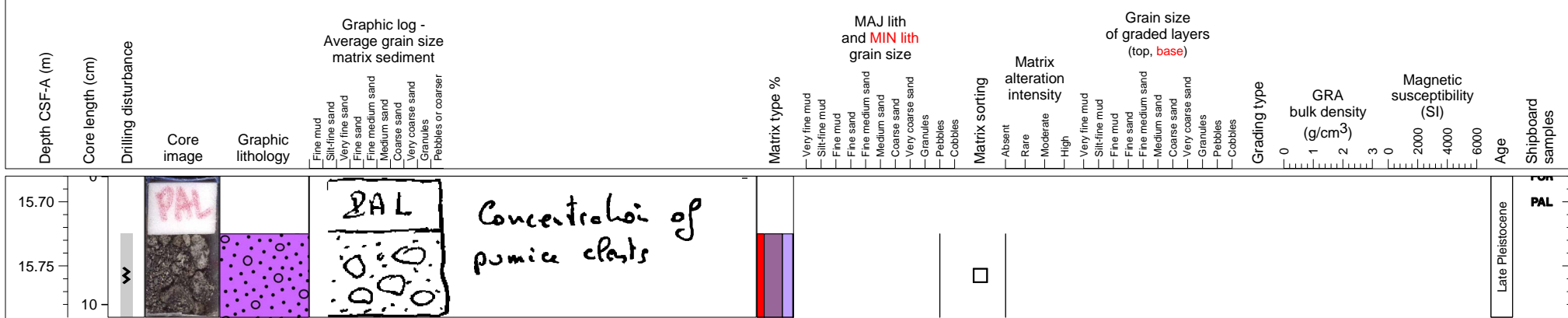
Volcaniclastic turbidite, normally graded, continued from section 5A to 7A.



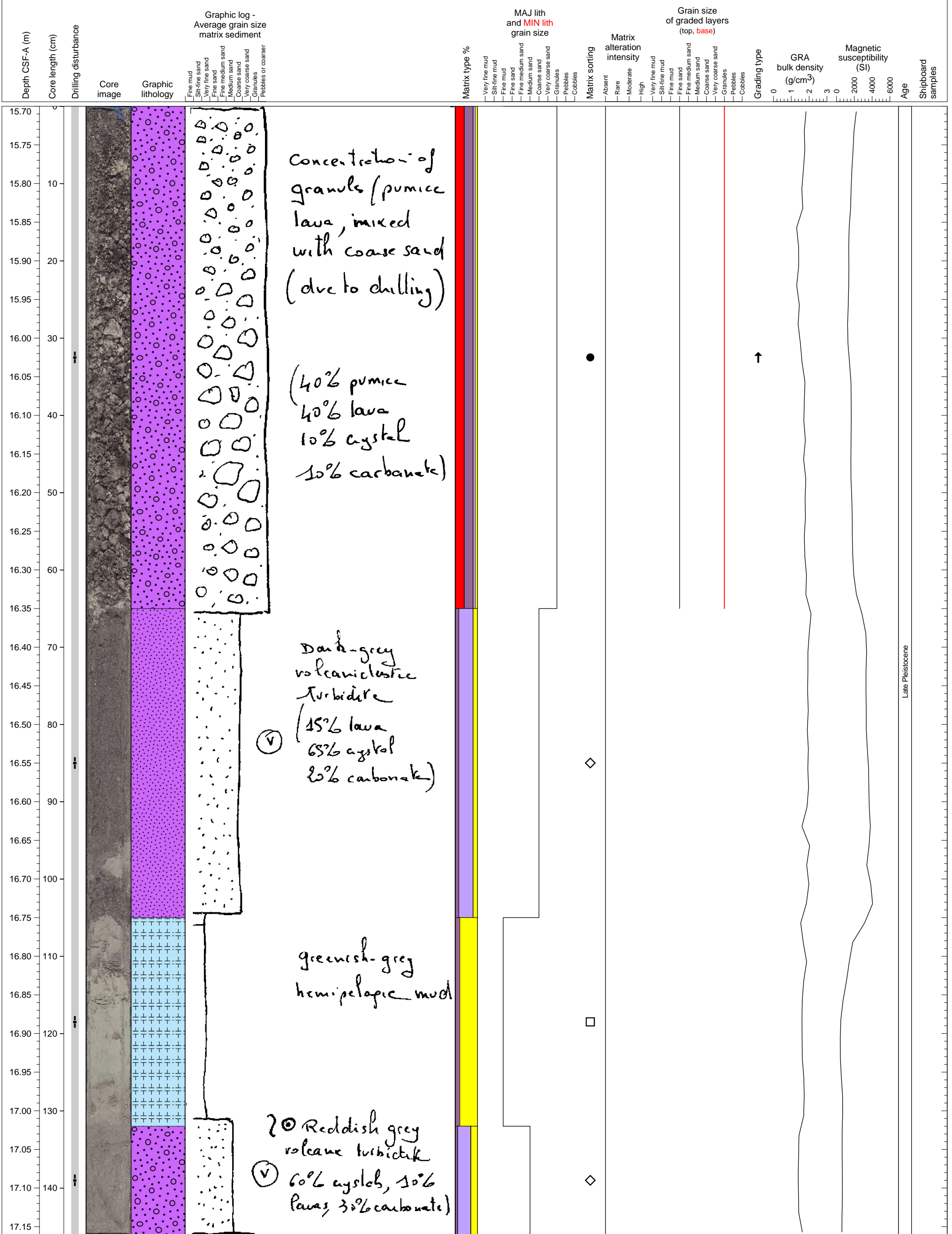
Normally graded volcaniclastic turbidite continued from section 6A.



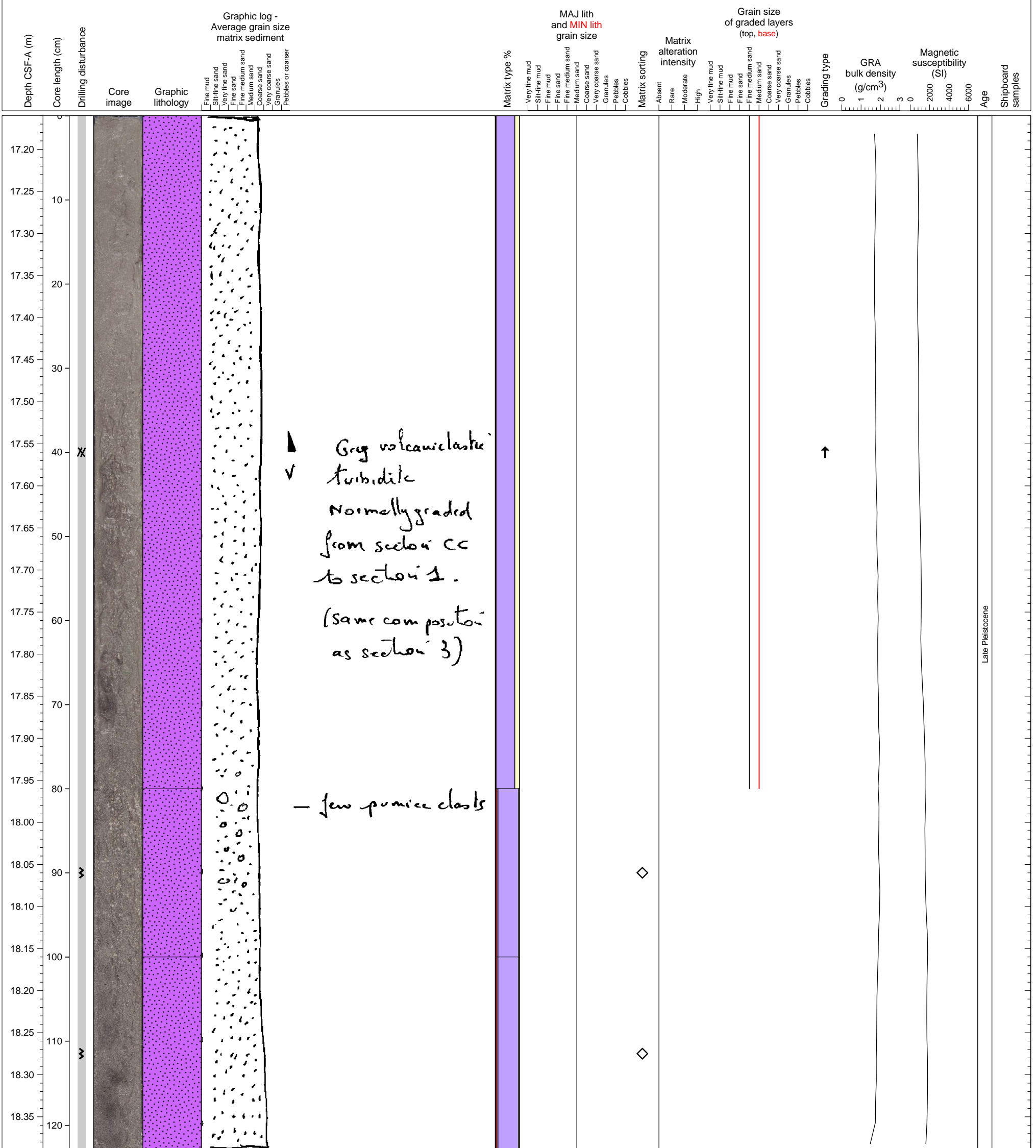
Pumice clasts (2-3cm in diameter) with very coarse grained matrix



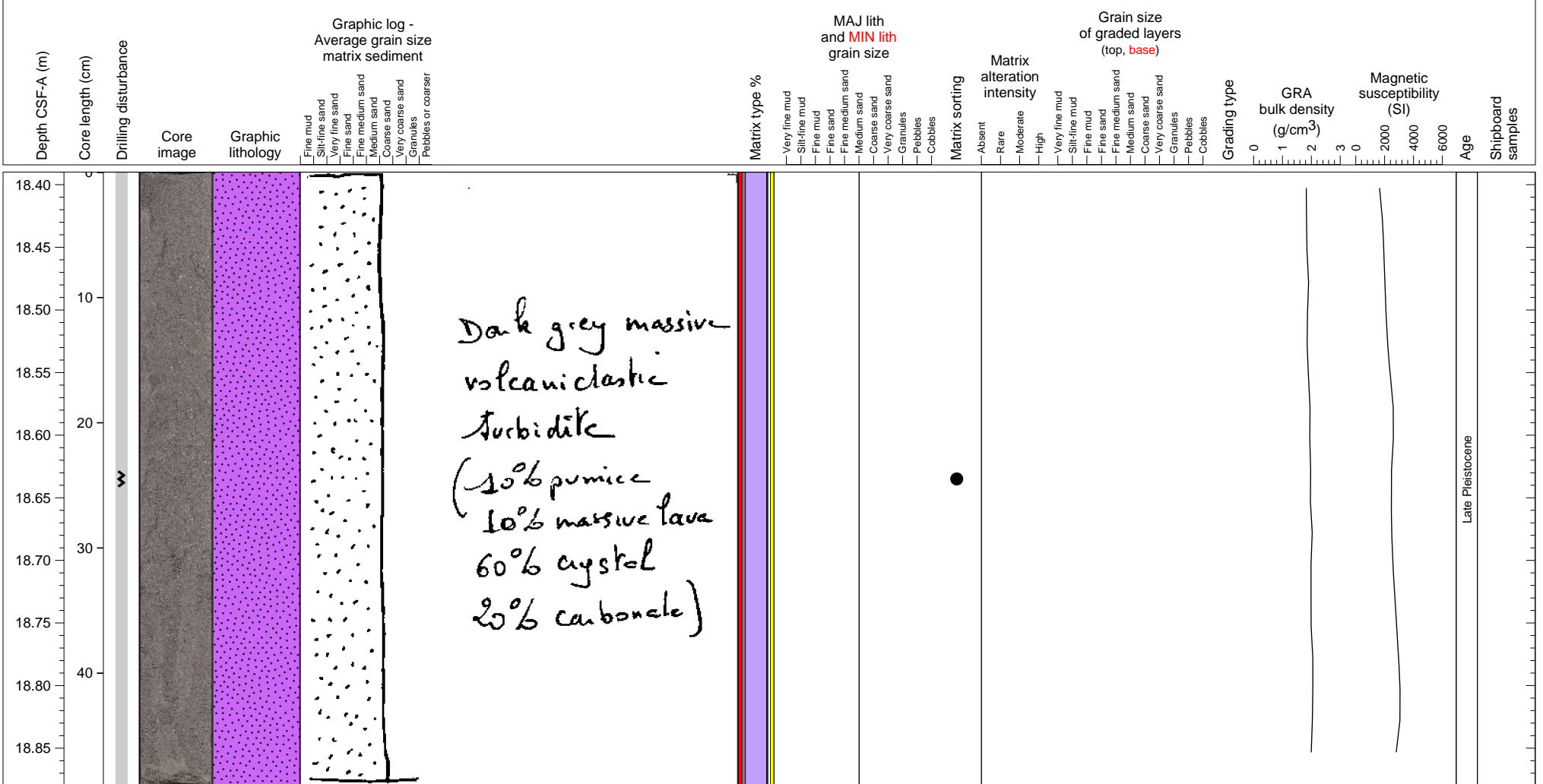
Very coarse pumice-rich, clast-supported unit at top (may have fallen into hole), with two small turbidite sands separated by a thin hemipelagic sediment.



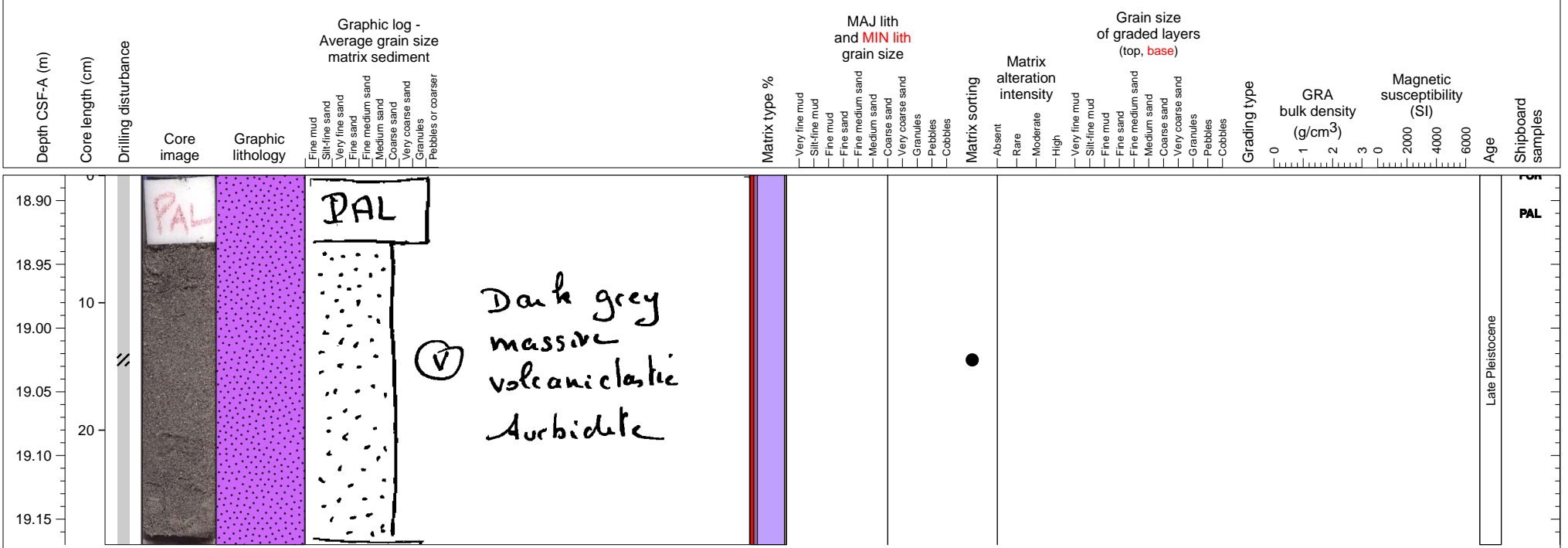
A part of a thick volcanoclastic turbidite



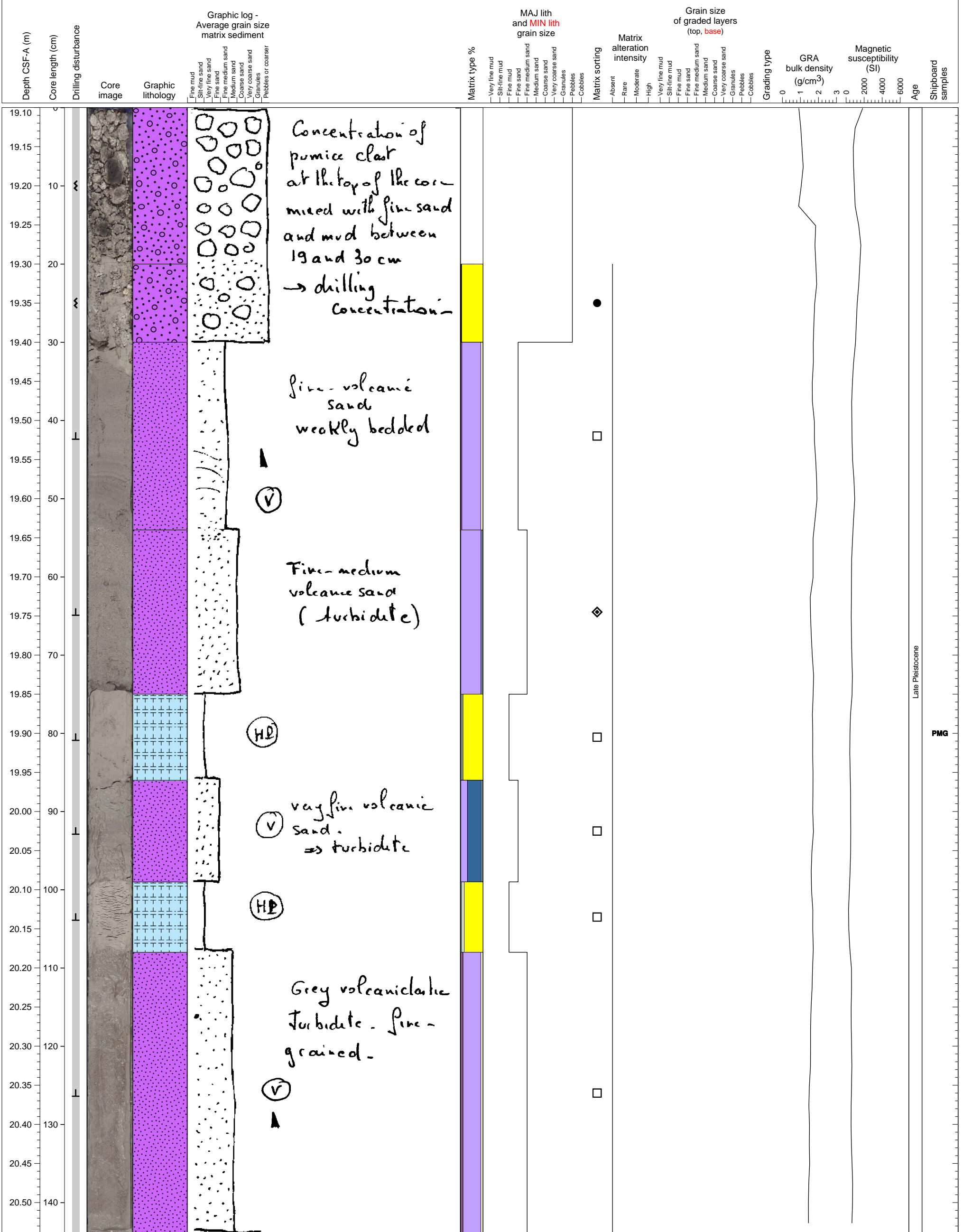
Massive volcanoclastic turbidite



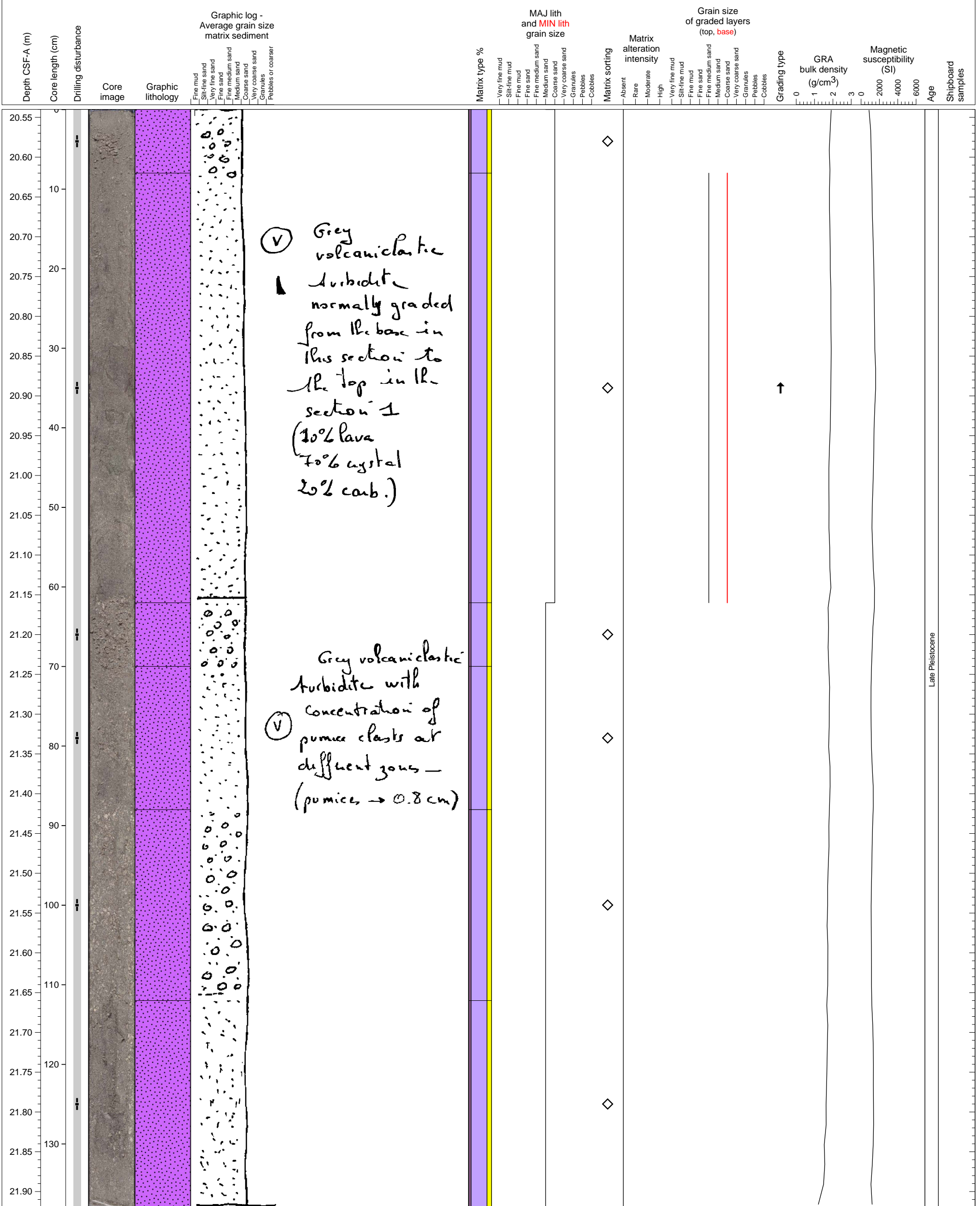
Massive volcanoclastic turbidite continued from section 3A.



Volcaniclastic turbidite with hemipelagite.



Thick volcanoclastic turbidite, with pumice concentration zones.

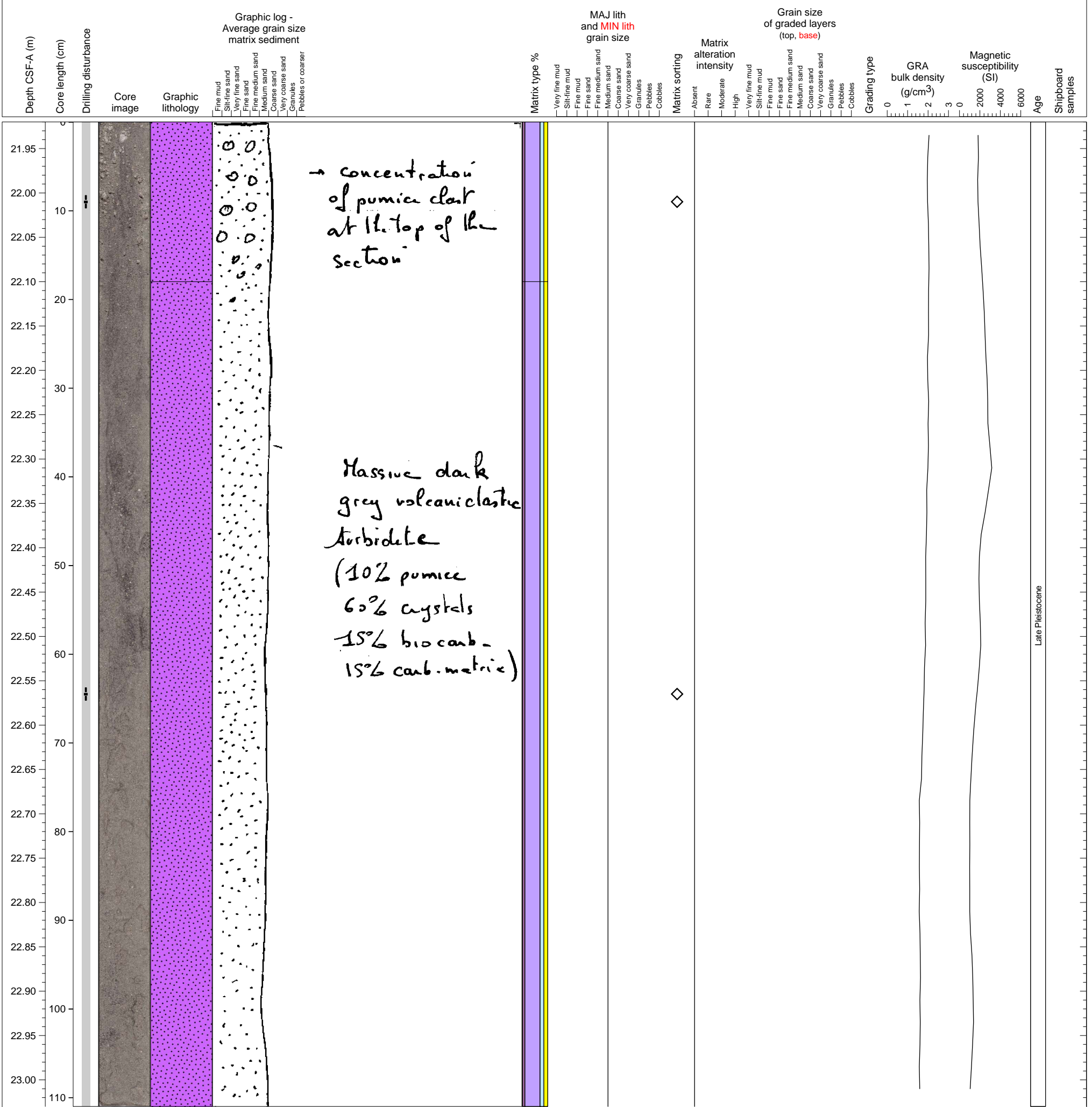


(V) Grey volcanoclastic turbidite normally graded from the base in this section to the top in the section 1 (10% lava 70% crystal 20% carb.)

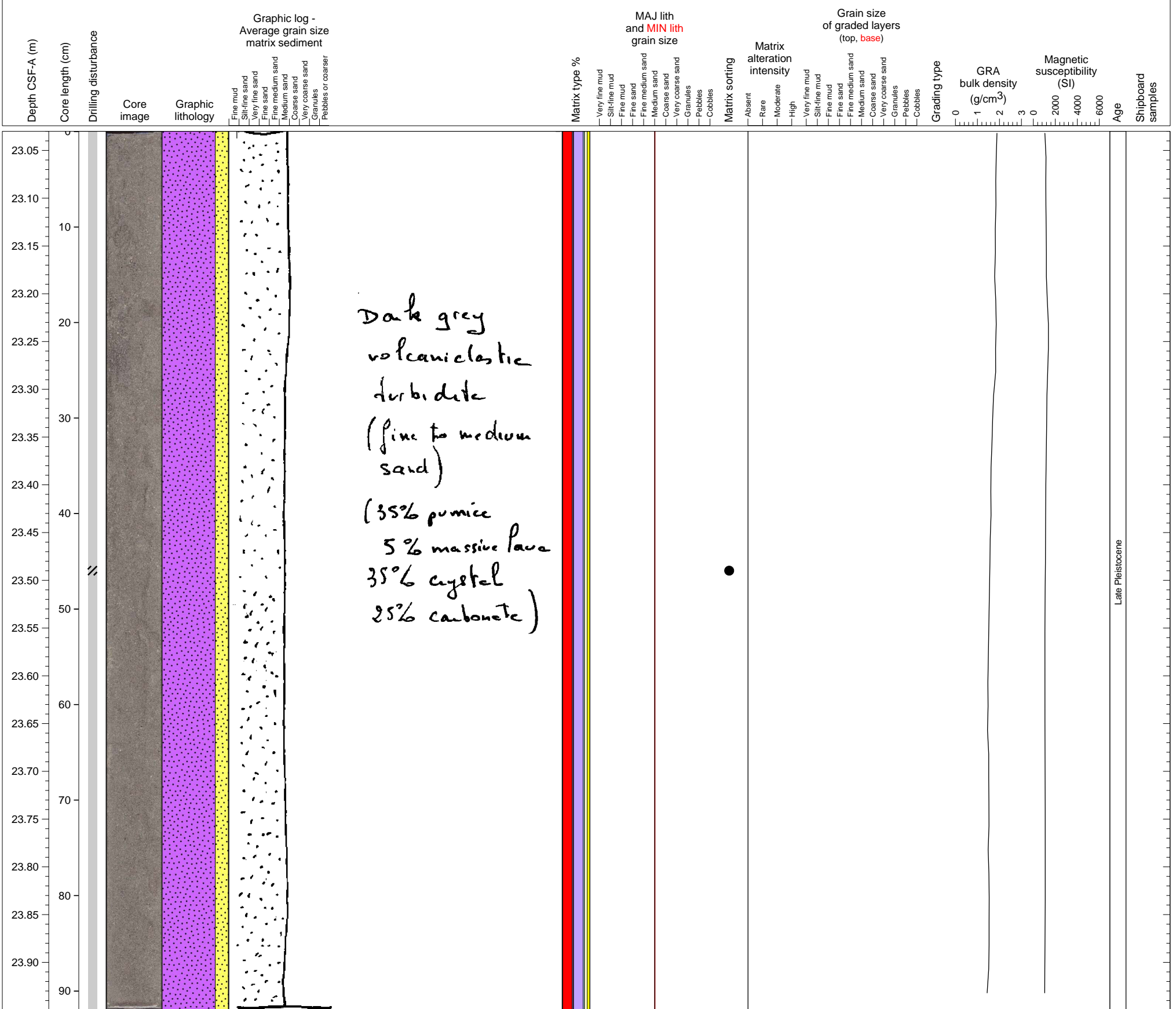
Grey volcanoclastic turbidite with concentration of pumice clasts at different zones - (pumice → 0.8 cm)

Late Pleistocene

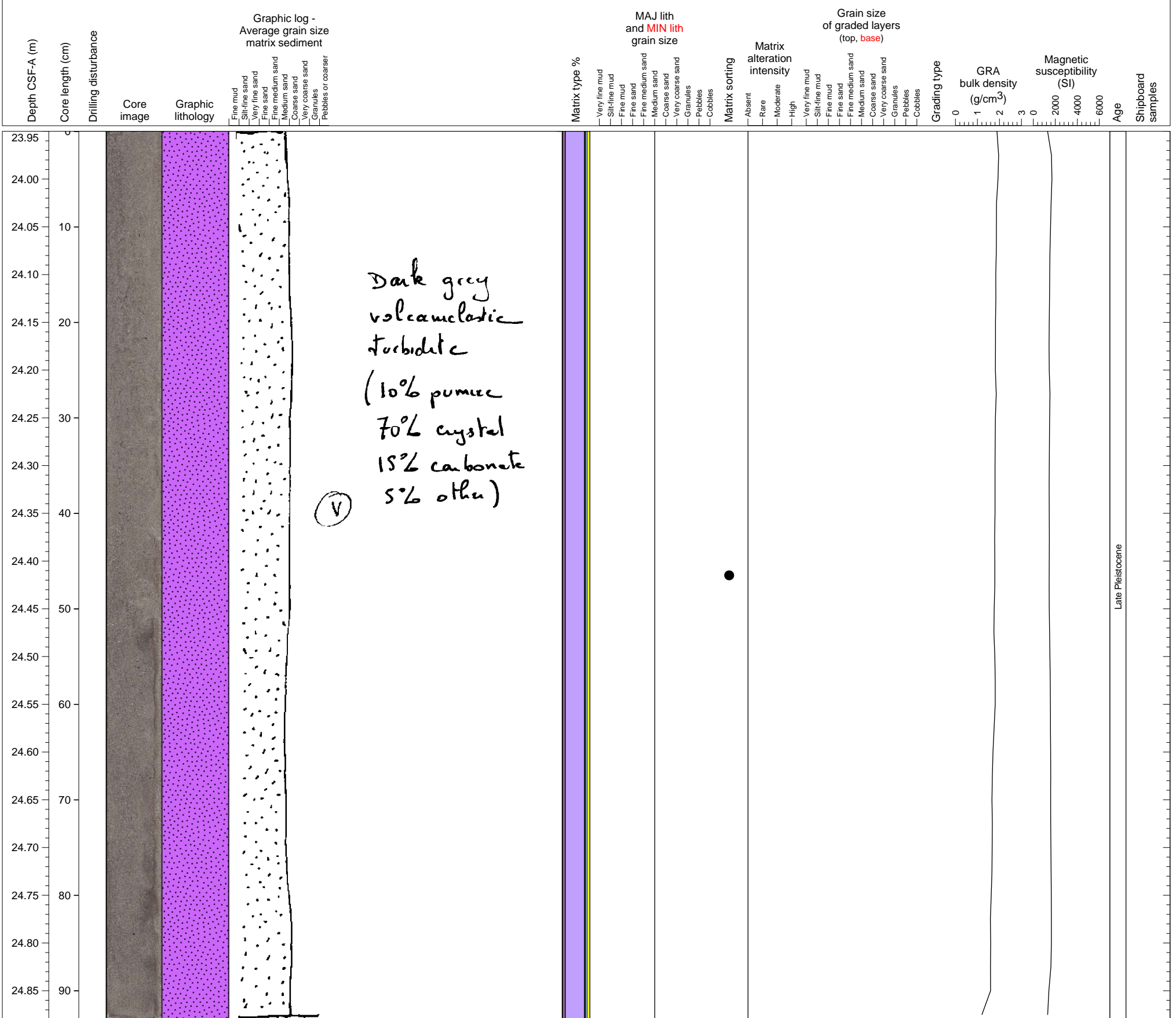
Massive volcanoclastic turbidite.



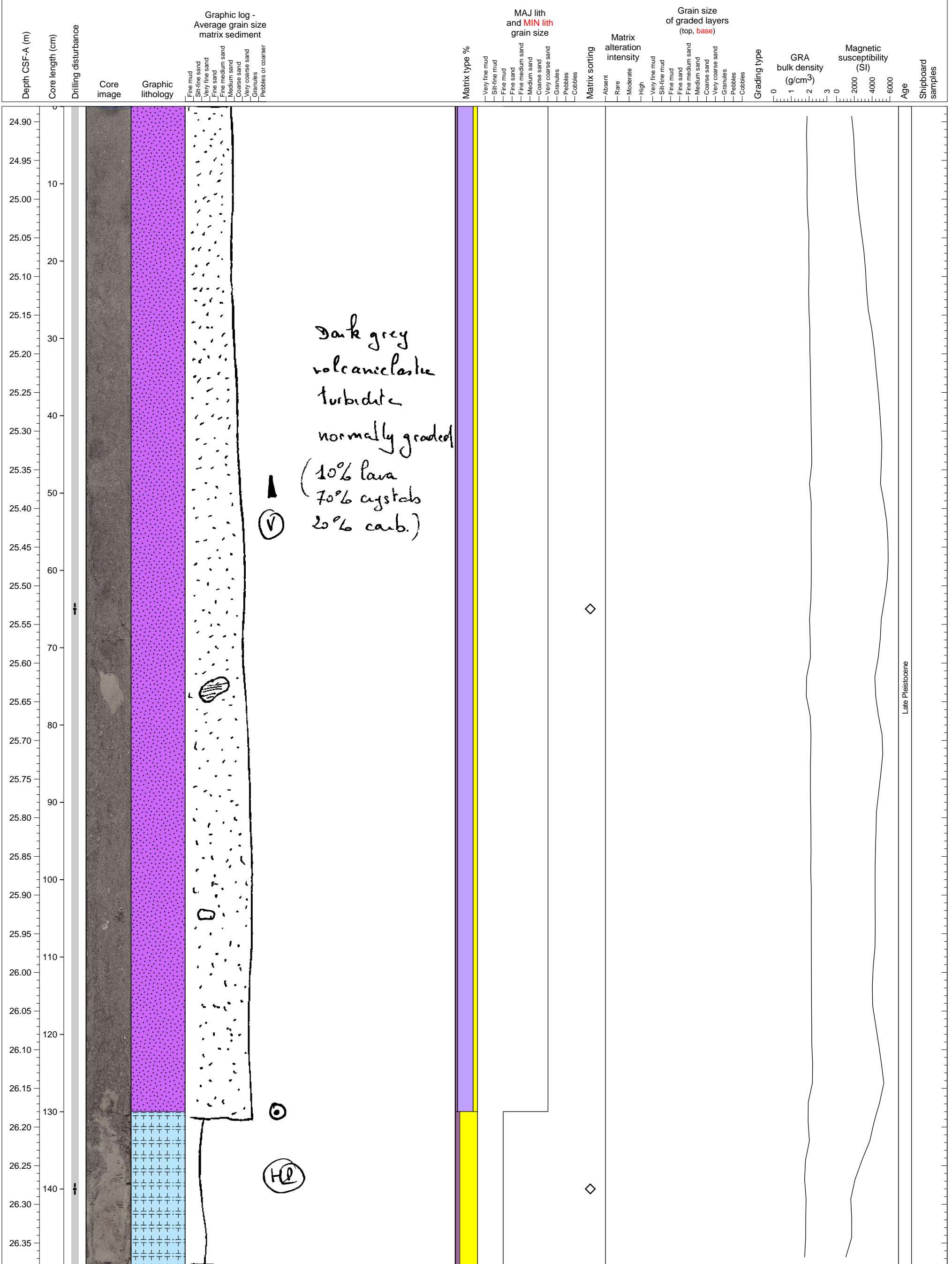
Massive volcanoclastic turbidite



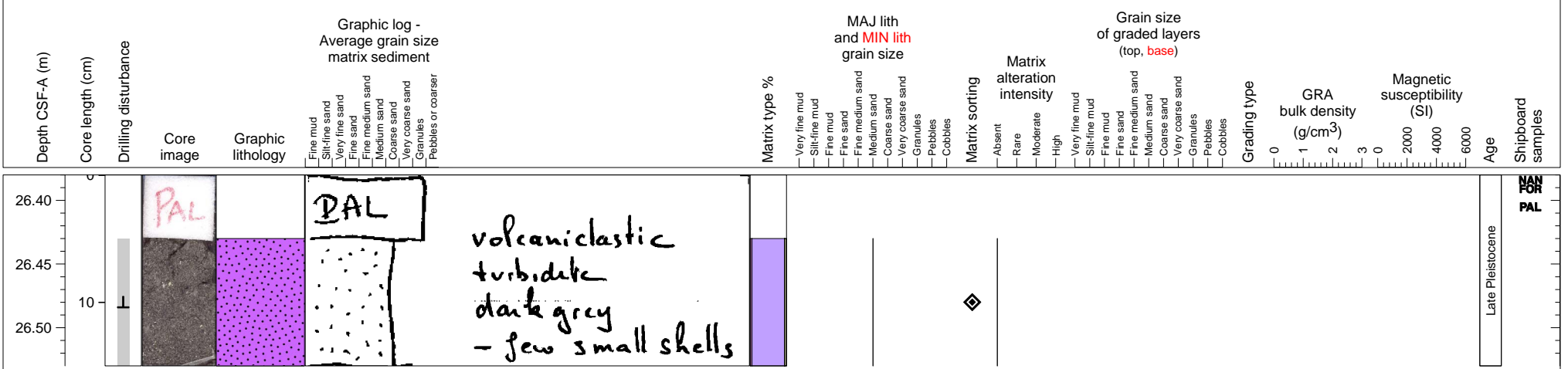
Massive volcanoclastic turbidite



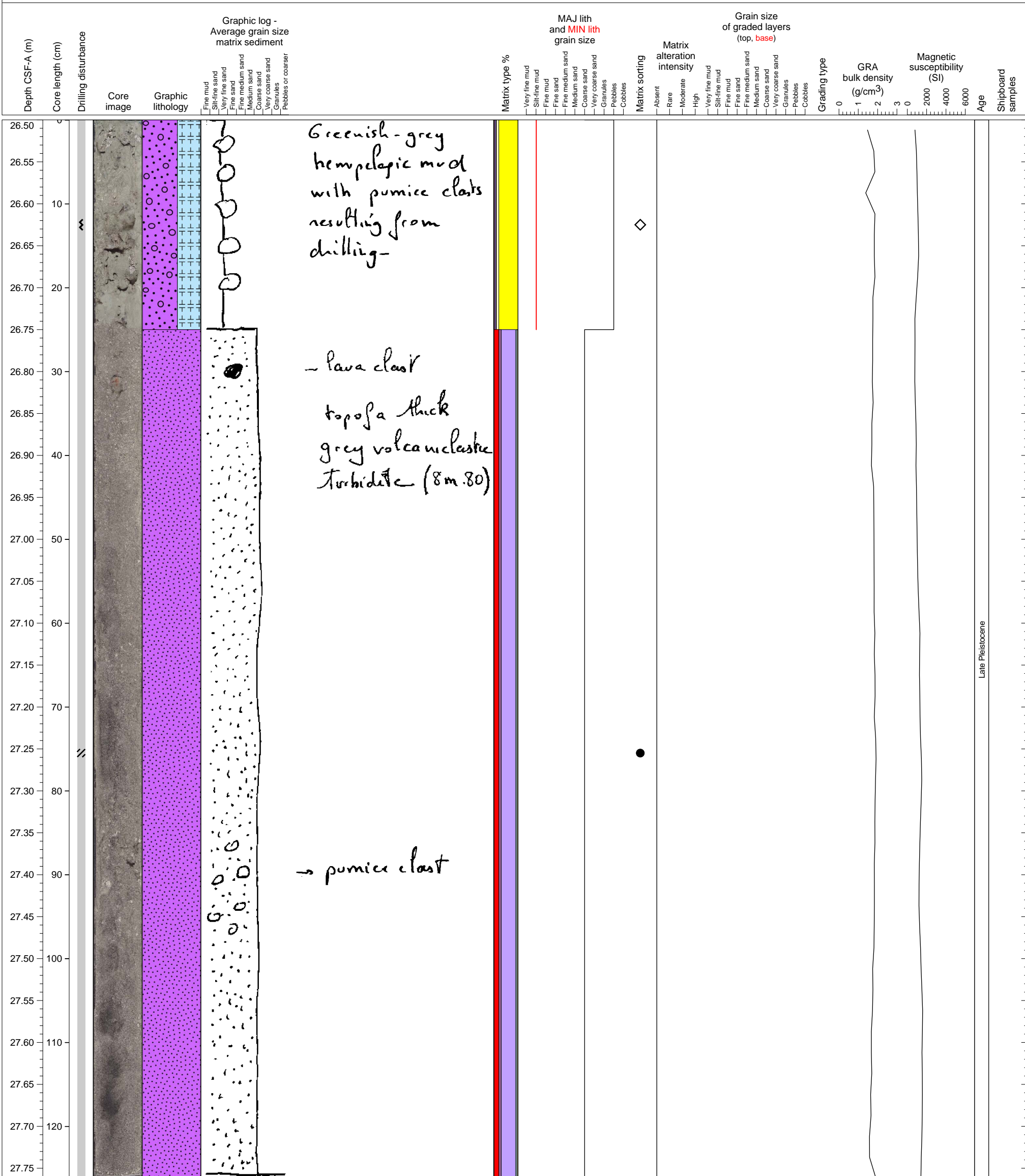
Base of volcanoclastic turbidite with thin hemipelagic unit below.



A part of volcanoclastic turbidite with shell fragments

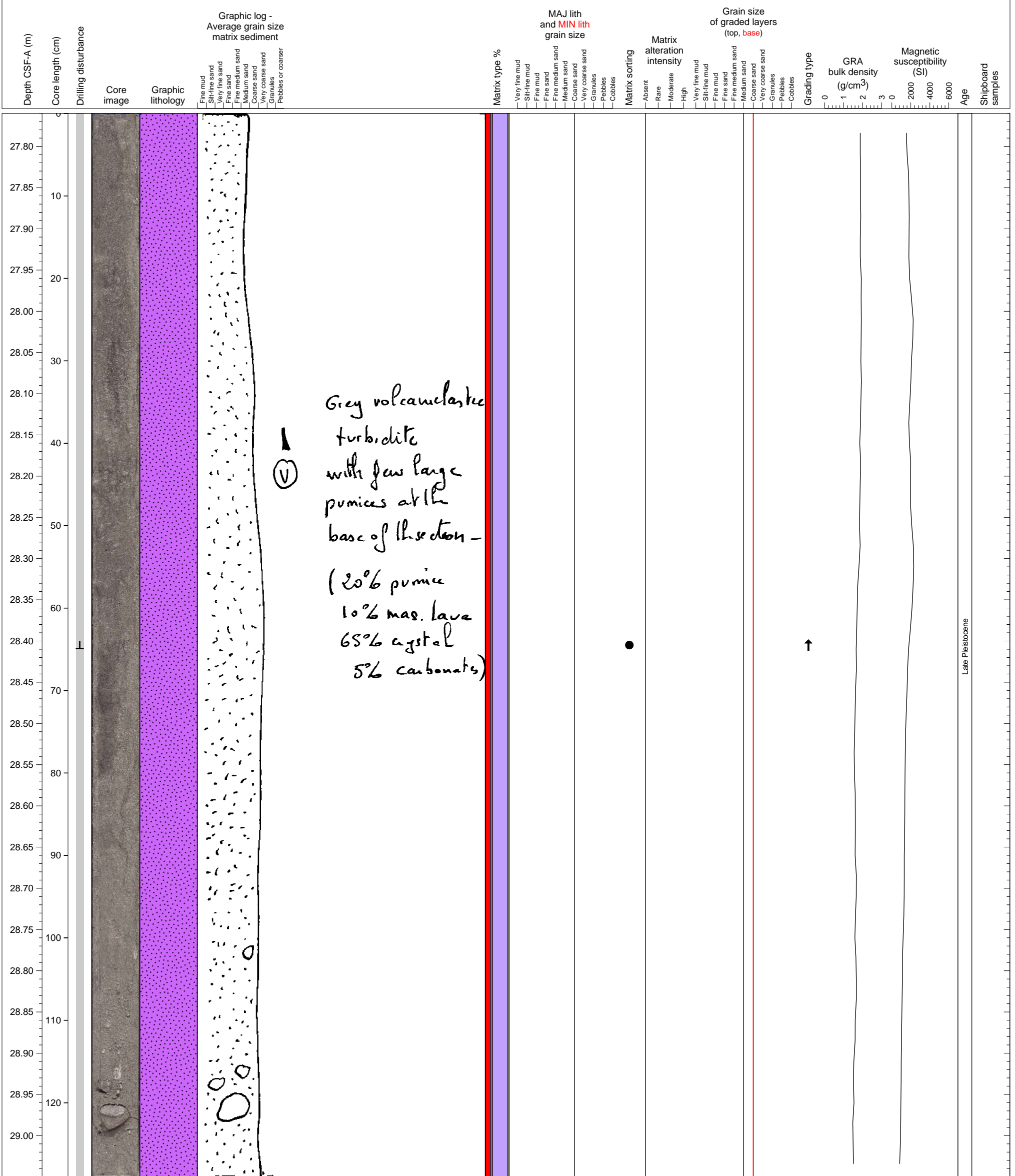


Volcaniclastic turbidite and mixture of hemipelagic sediment with pebbly pumice clasts

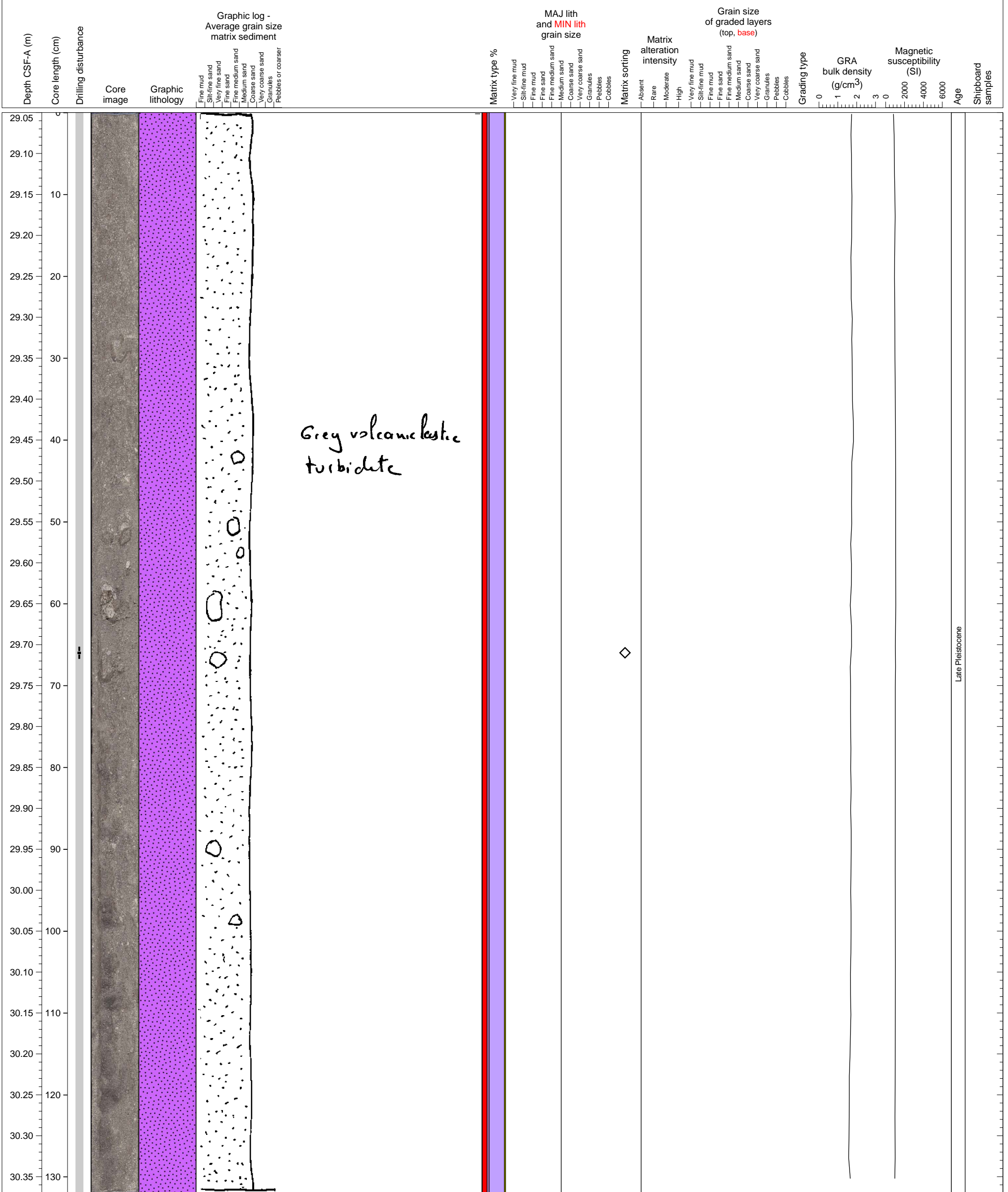


Late Pleistocene

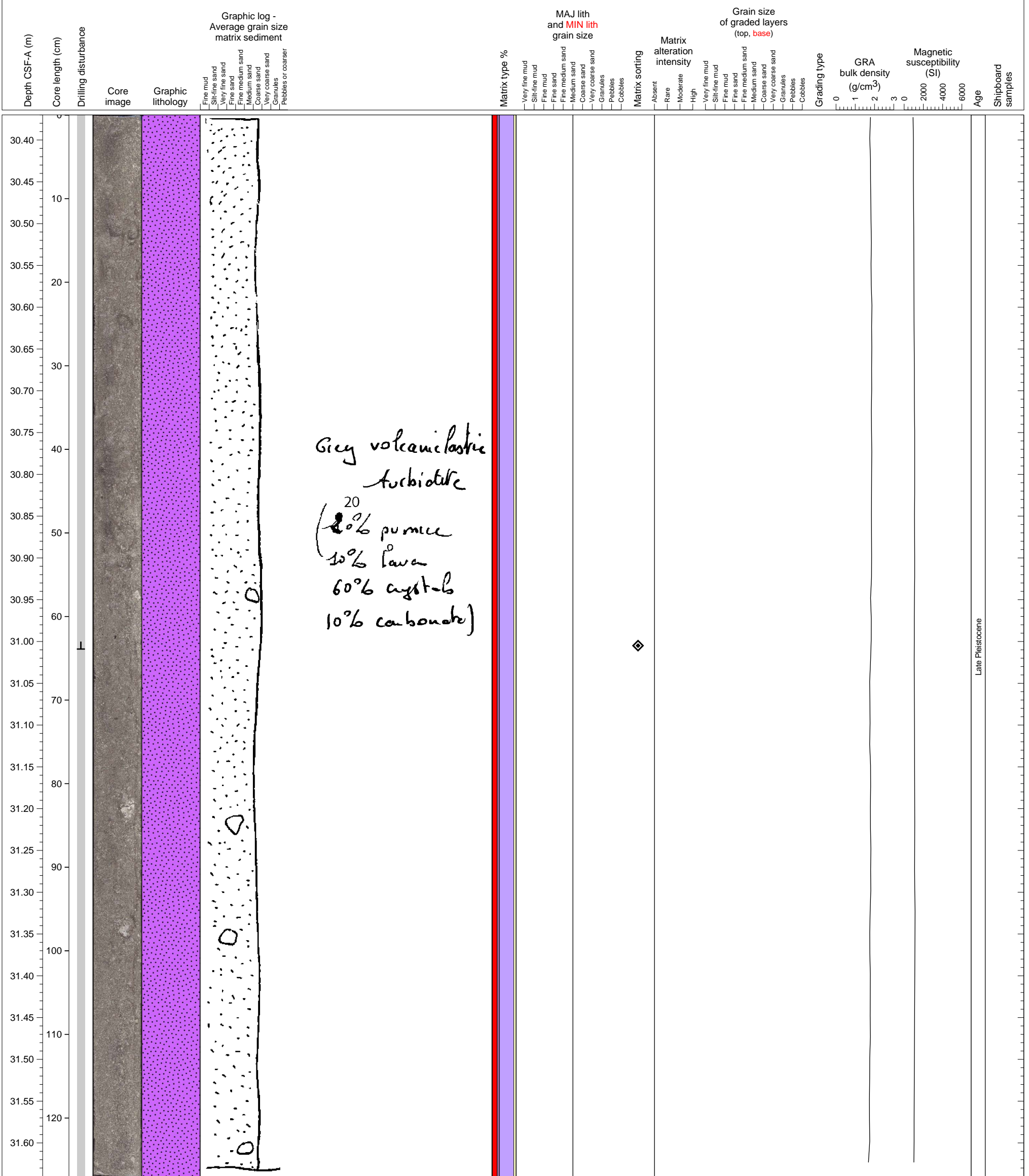
Volcaniclastic turbidite continued from section 1A.



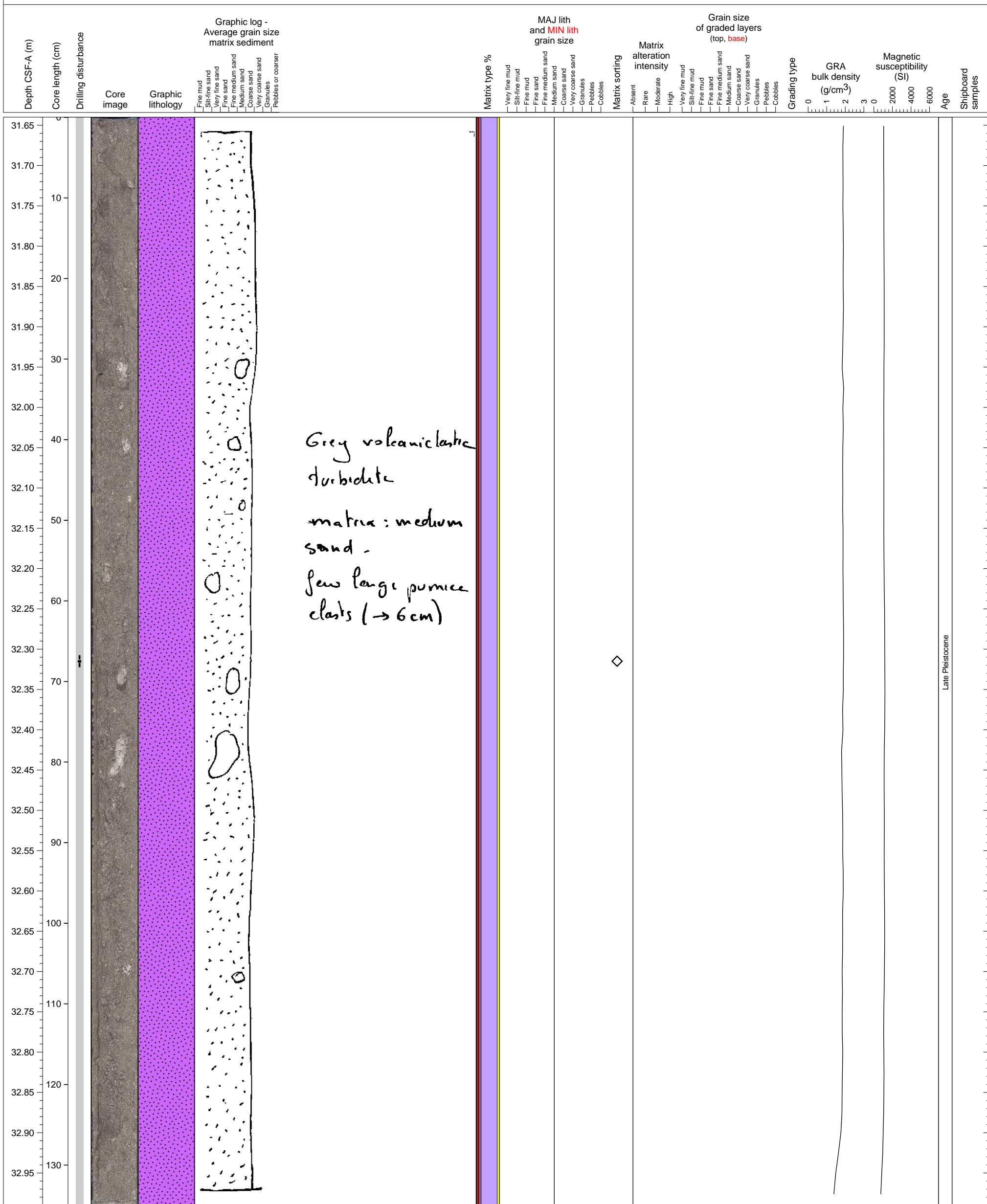
Part of a very thick volcanoclastic turbidite.



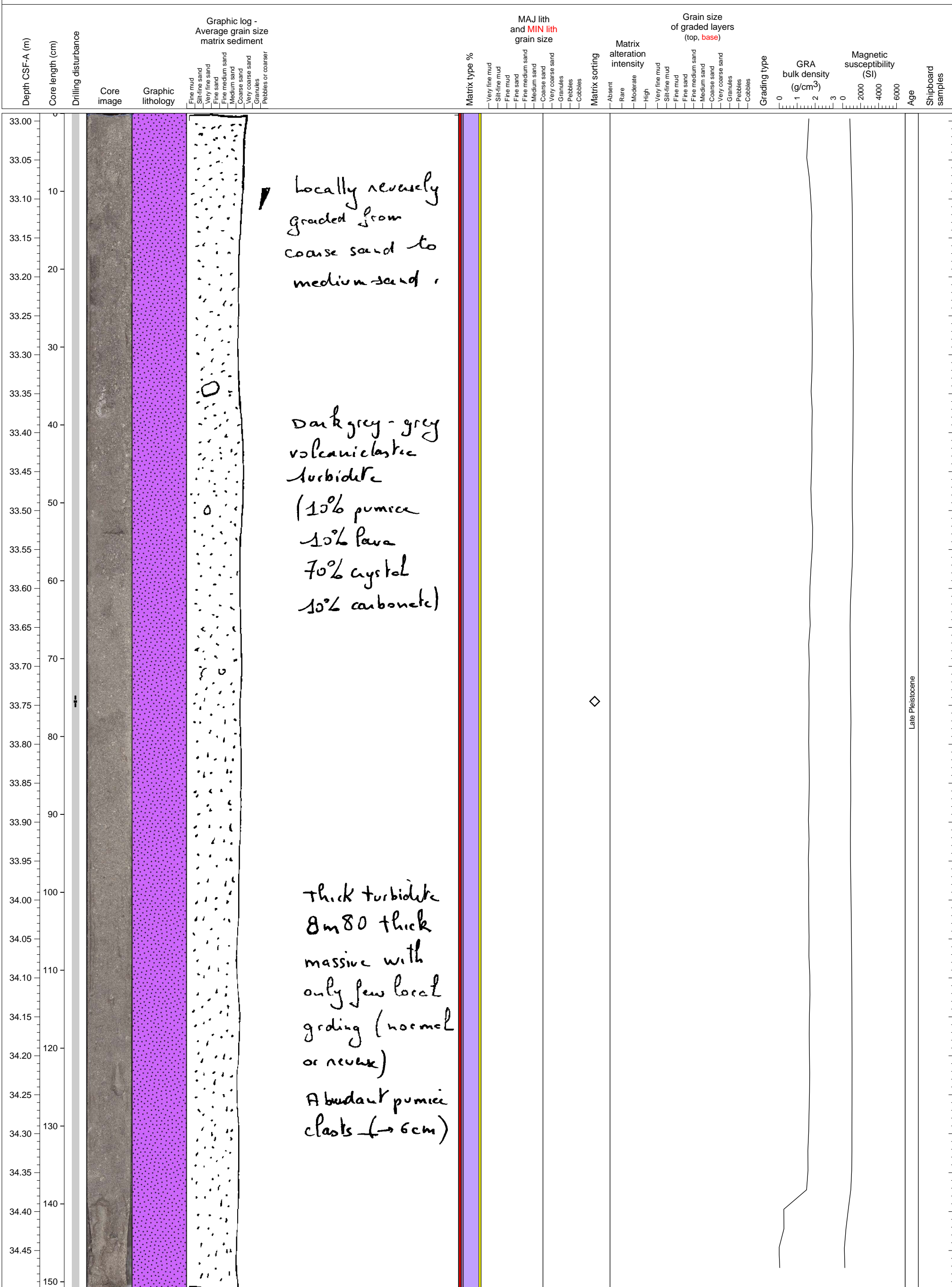
Part of a thick volcanoclastic turbidite



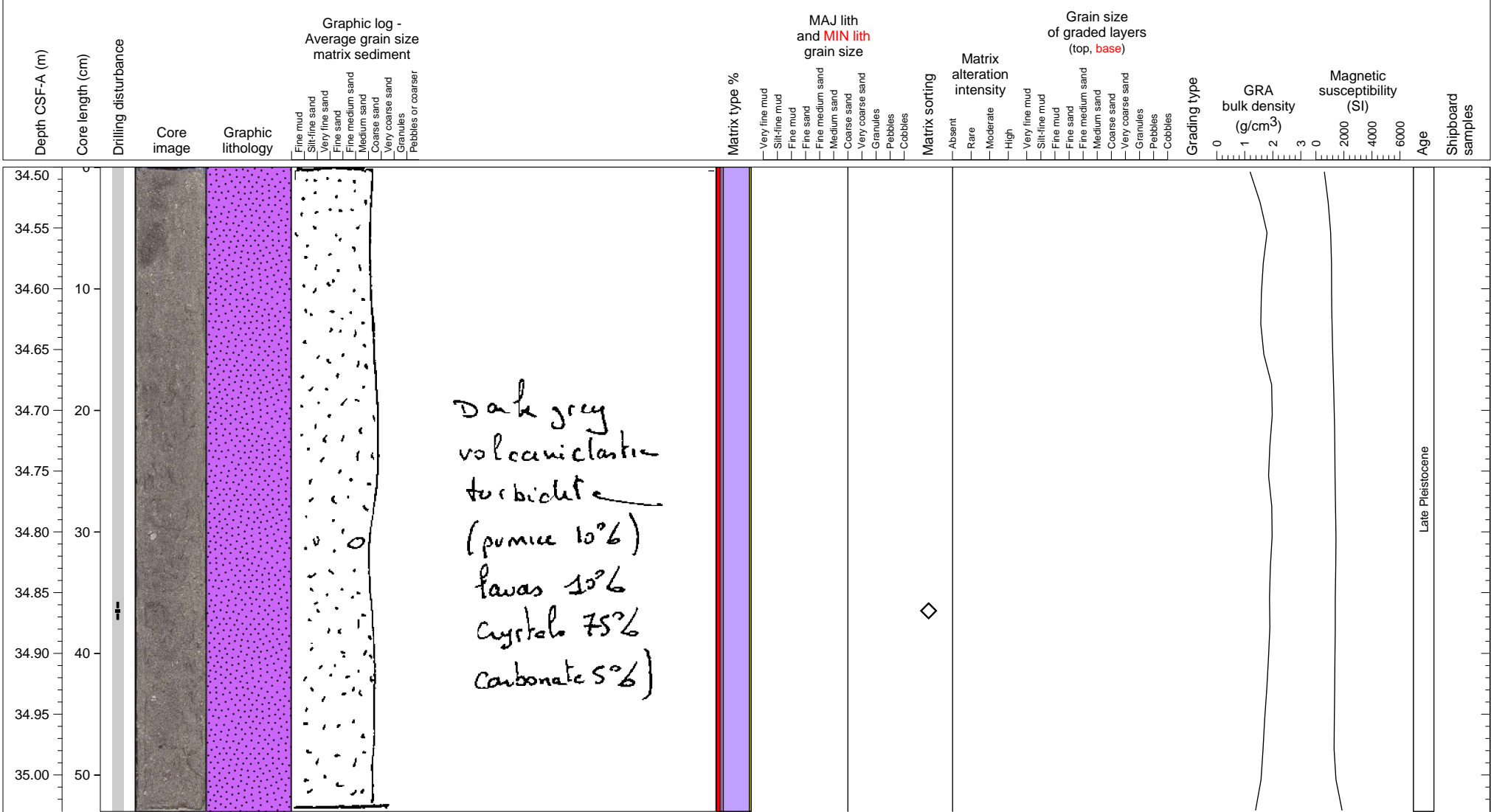
Part of a very thick volcanoclastic turbidite.



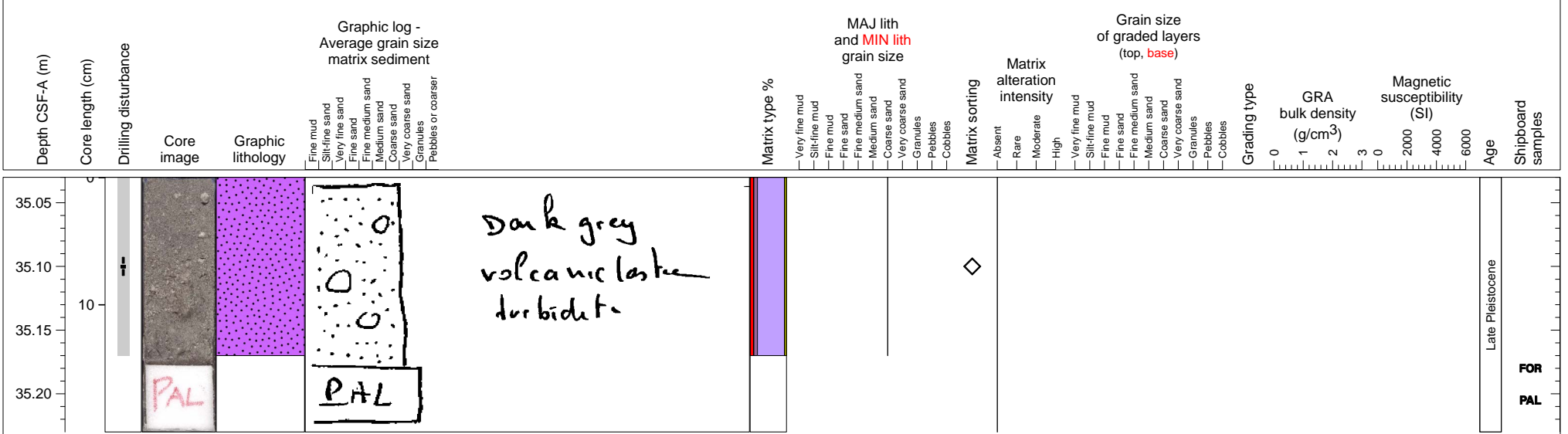
Part of a very thick volcanoclastic turbidite.



Part of a very thick volcanoclastic turbidite.



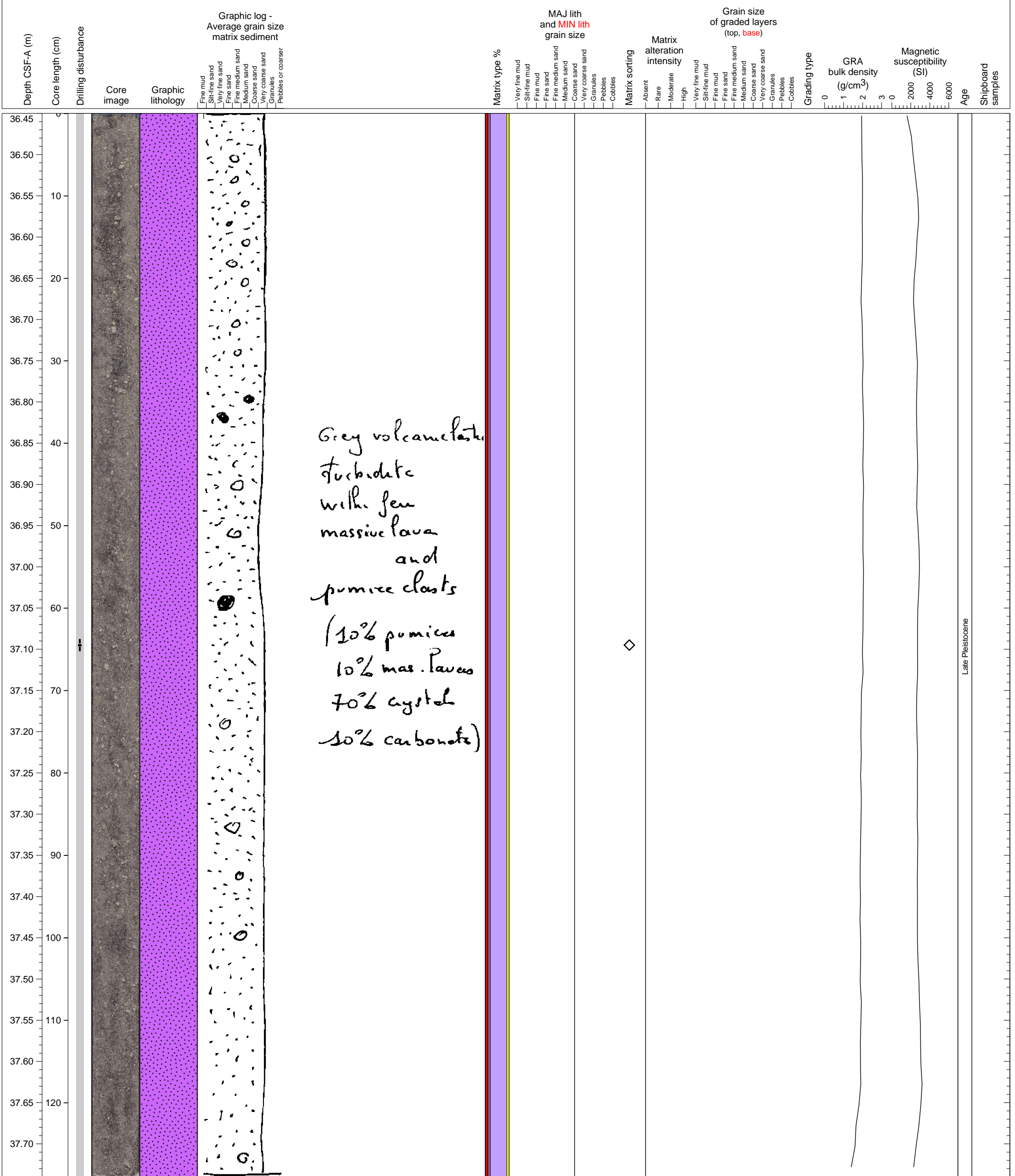
Part of a very thick volcanoclastic turbidite.



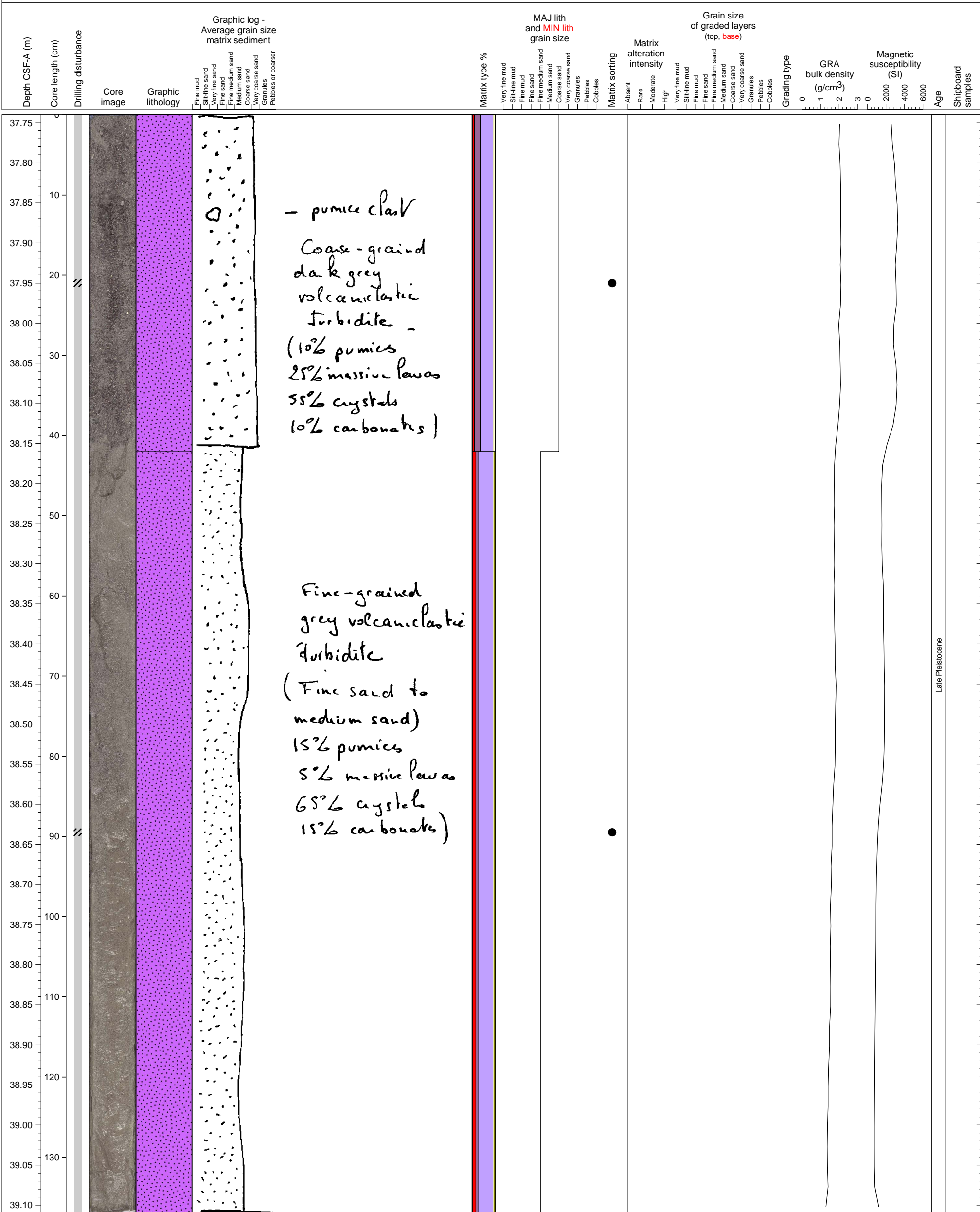
Top 45 cm is coarse, clast-supported, pumice-rich (May have fallen in hole). Thin hemipelagic sediment overlying volcanoclastic turbidite.



Part of a thick volcanoclastic turbidite

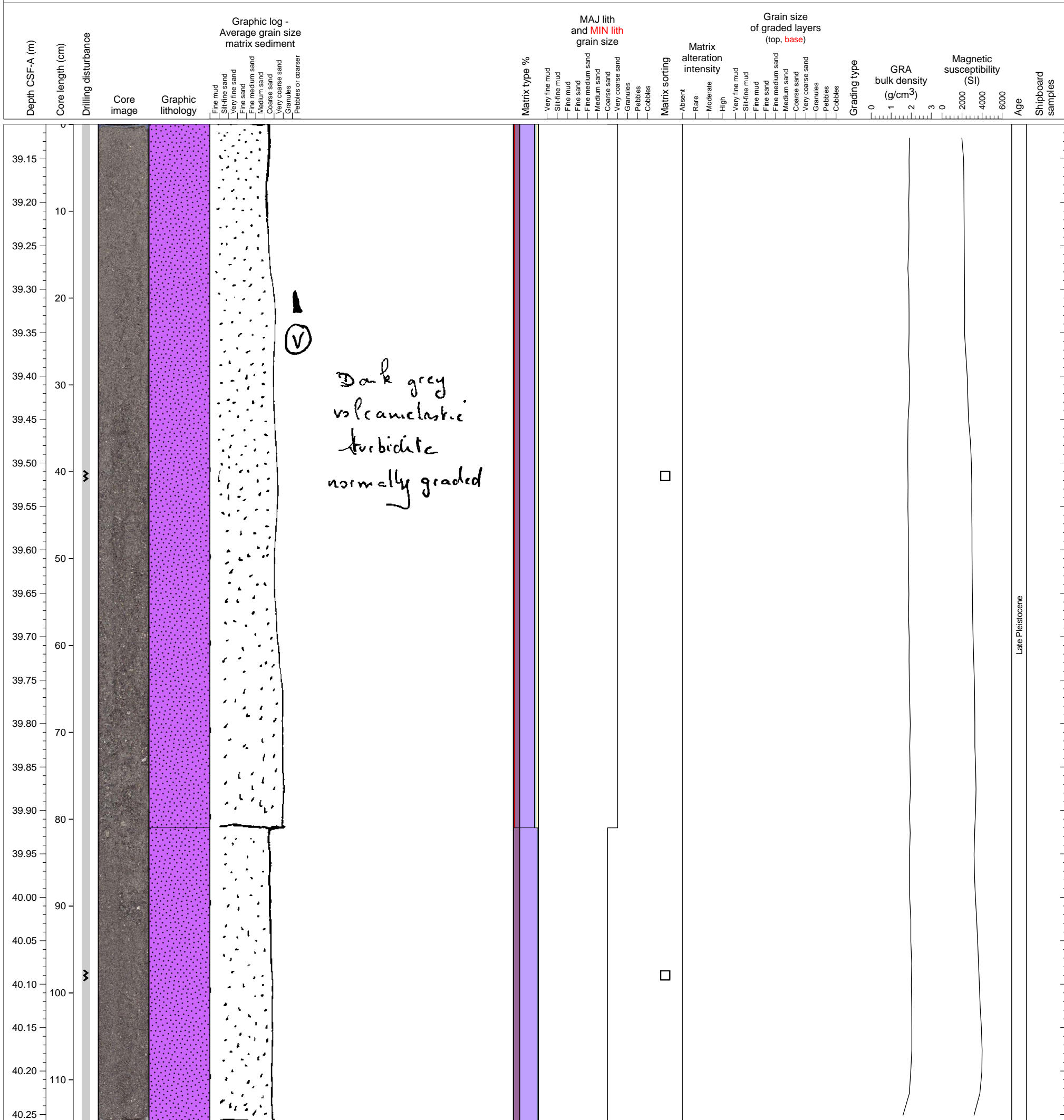


Two volcanoclastic turbidite layers

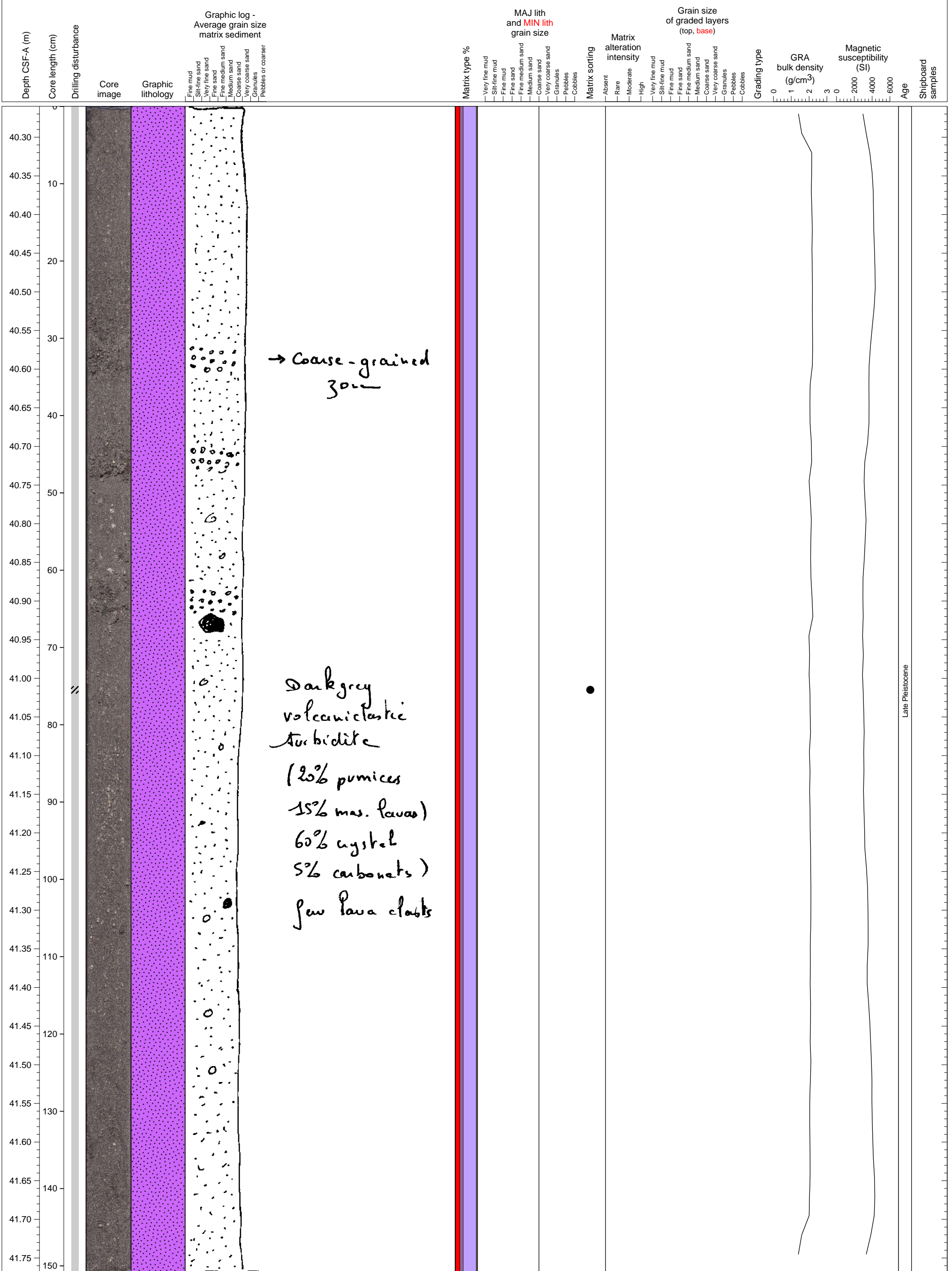


Late Pleistocene

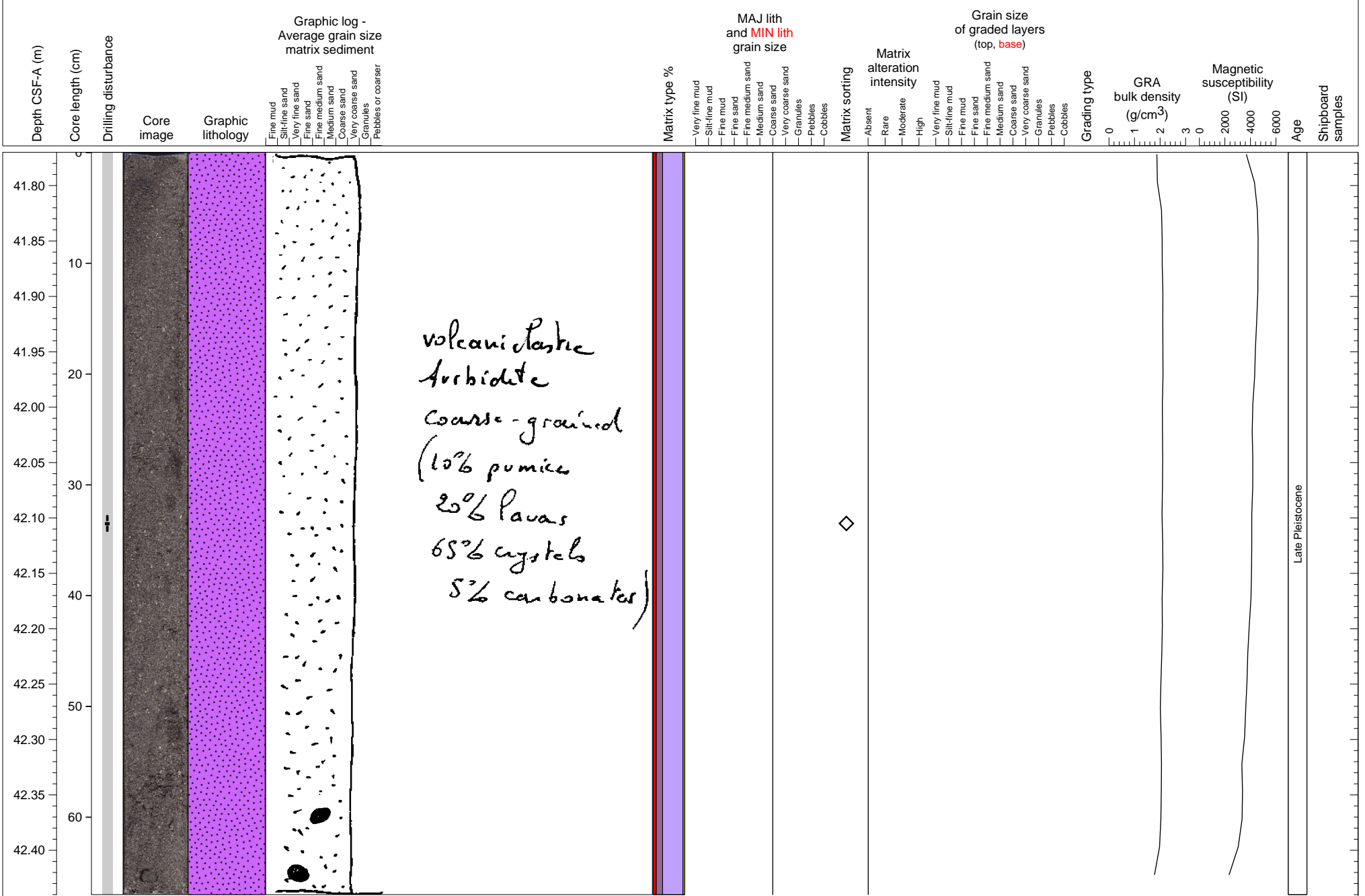
A part of a thick volcanoclastic turbidite



Volcaniclastic turbidite with several clast-rich zones



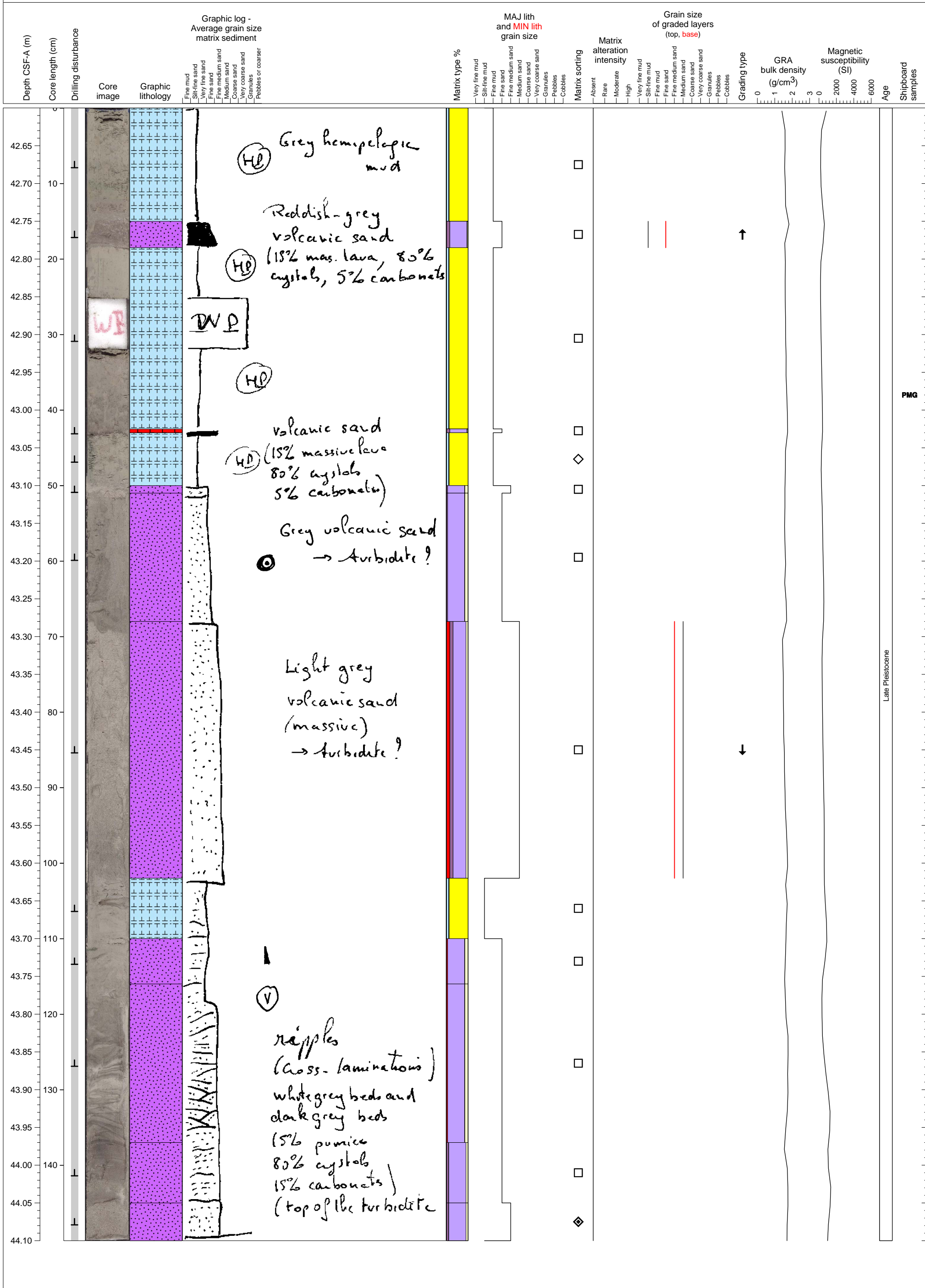
Part of a thick volcanoclastic turbidite



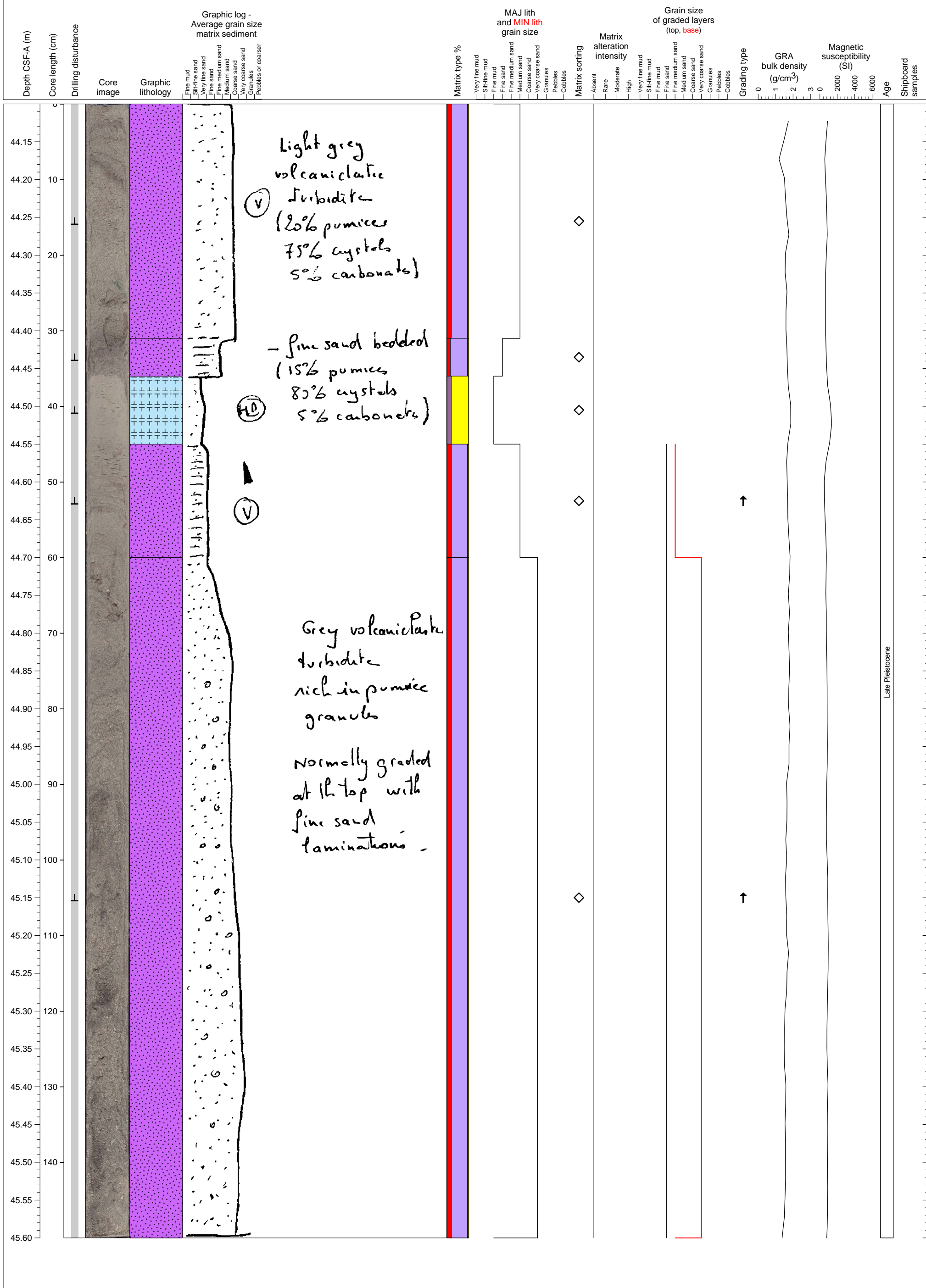
Part of a thick volcanoclastic turbidite



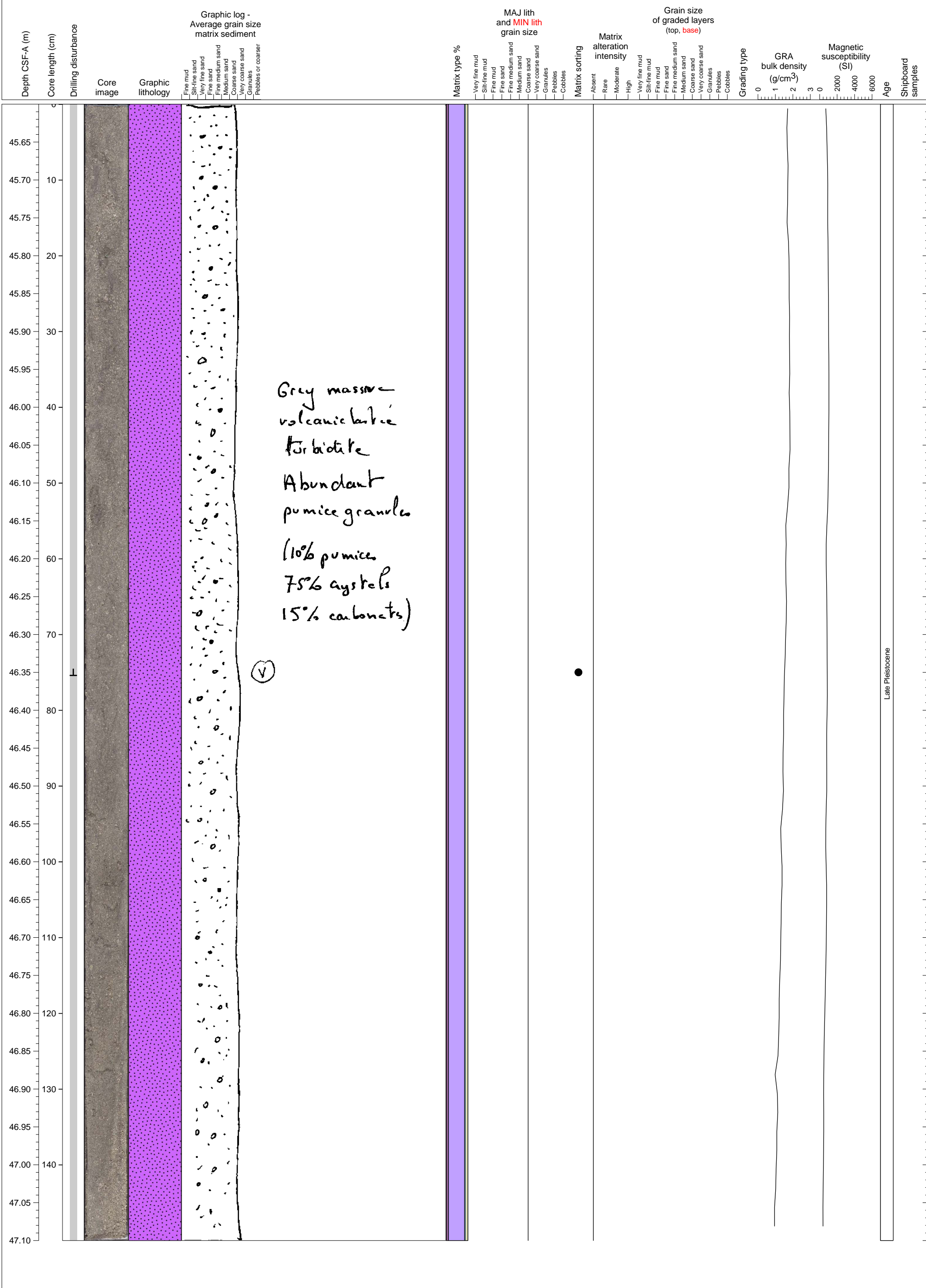
Hemipelagic sediments with 1 thin ashfall? layers and several tens of cms thick volcanoclastic turbidite with ripple-cross laminations.



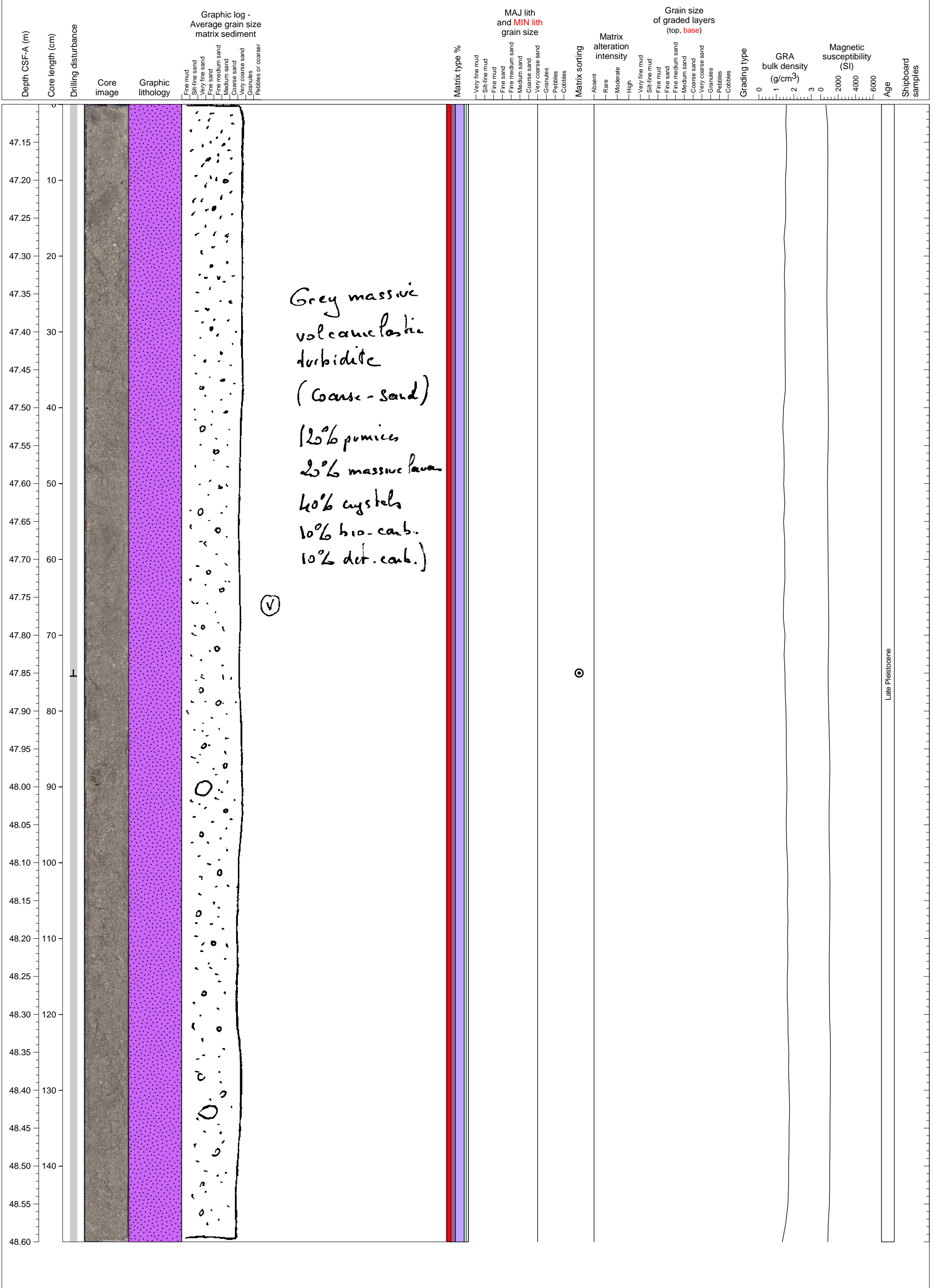
Volcaniclastic turbidite, partly laminated with thin hemipelagic sediment.



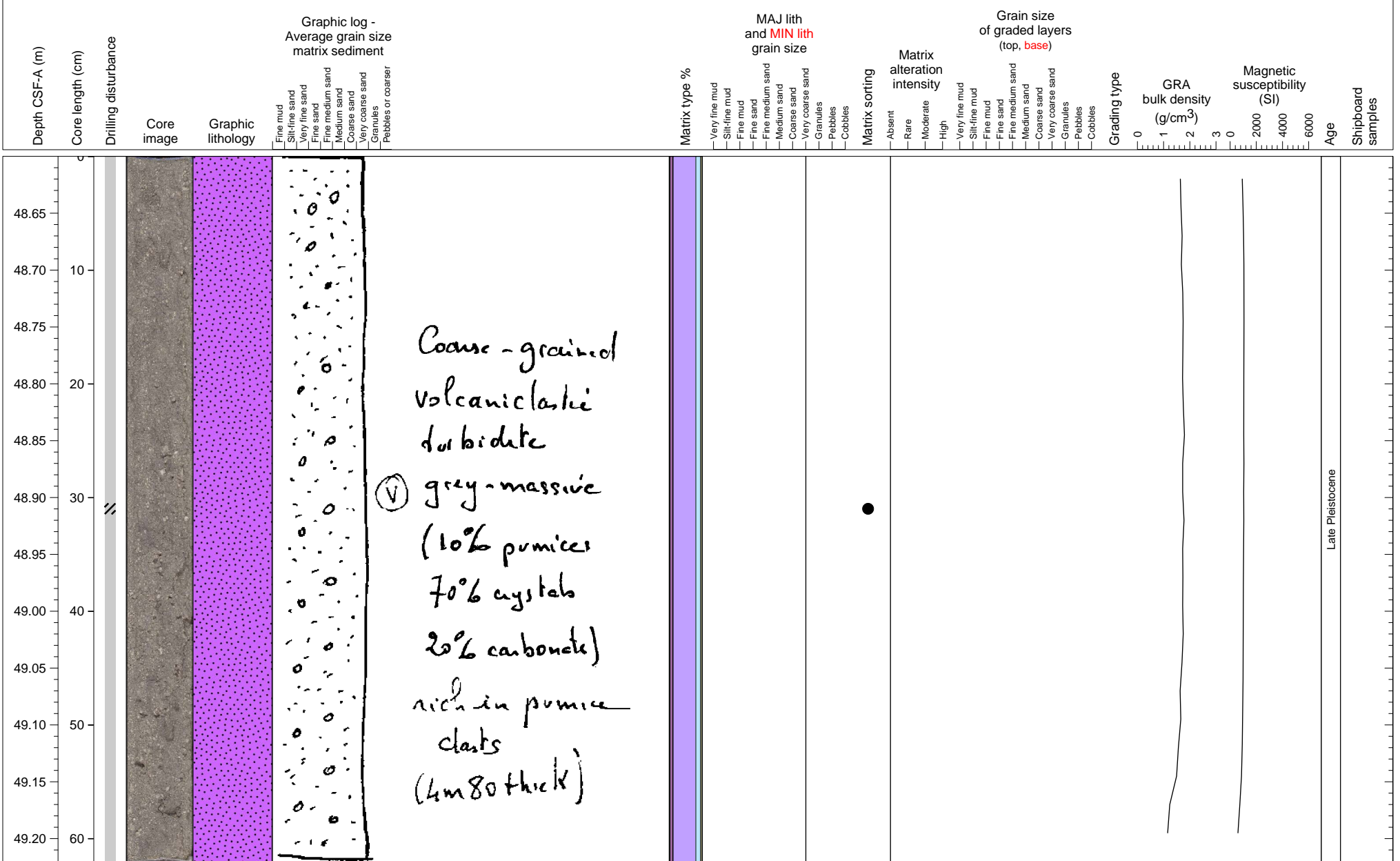
Massive volcanoclastic turbidite



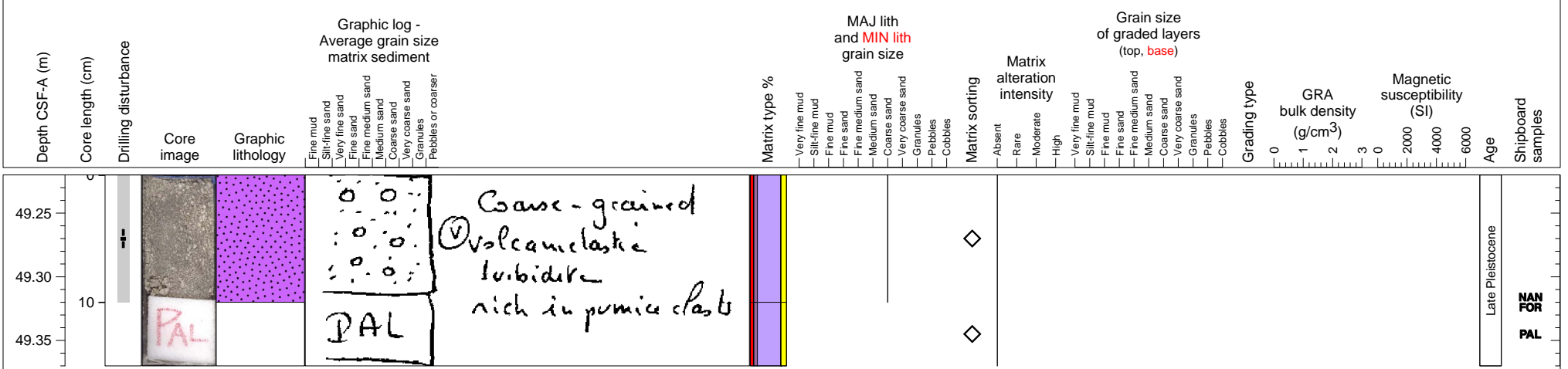
Massive volcanoclastic turbidite



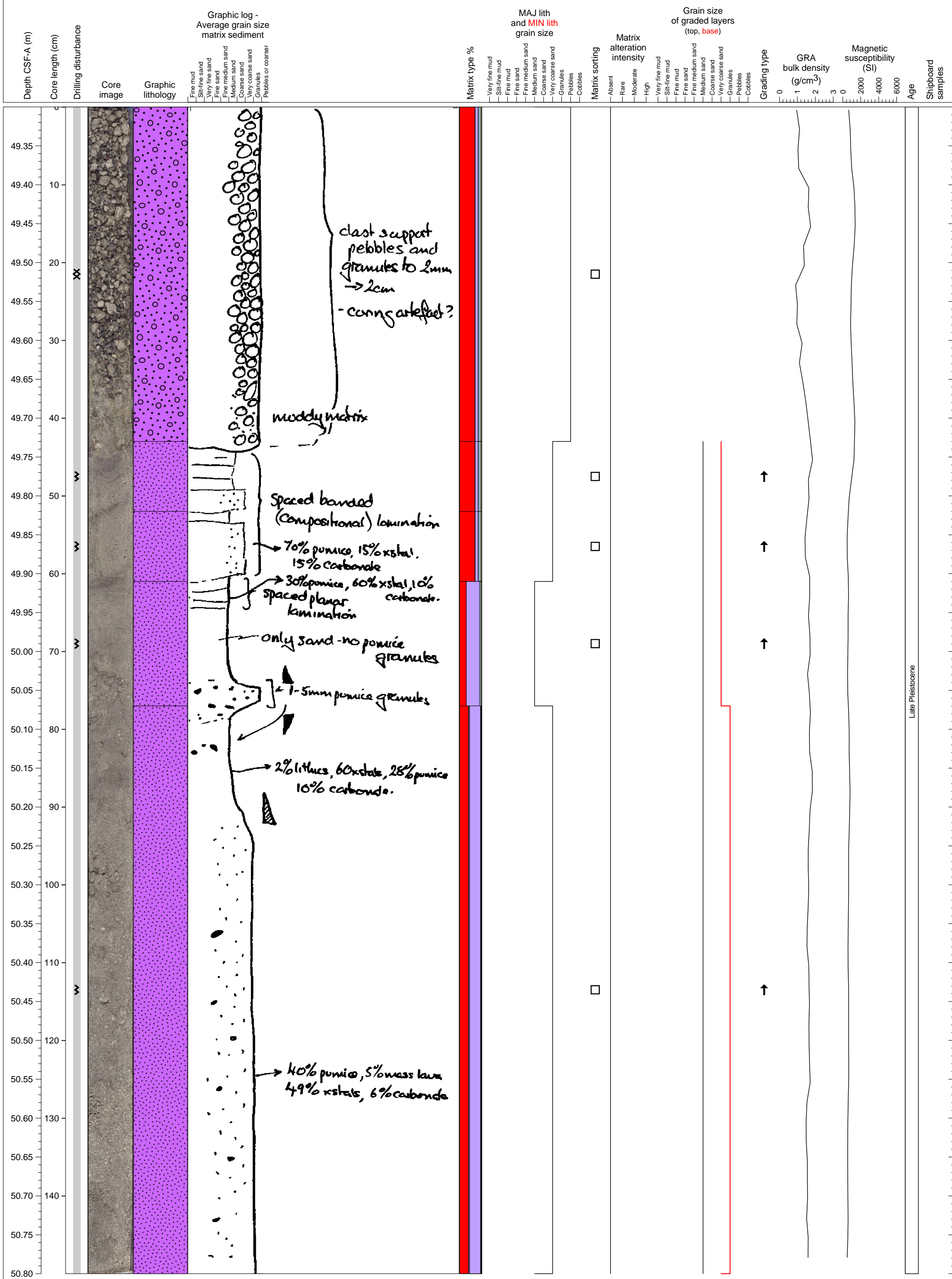
Massive volcanoclastic turbidite



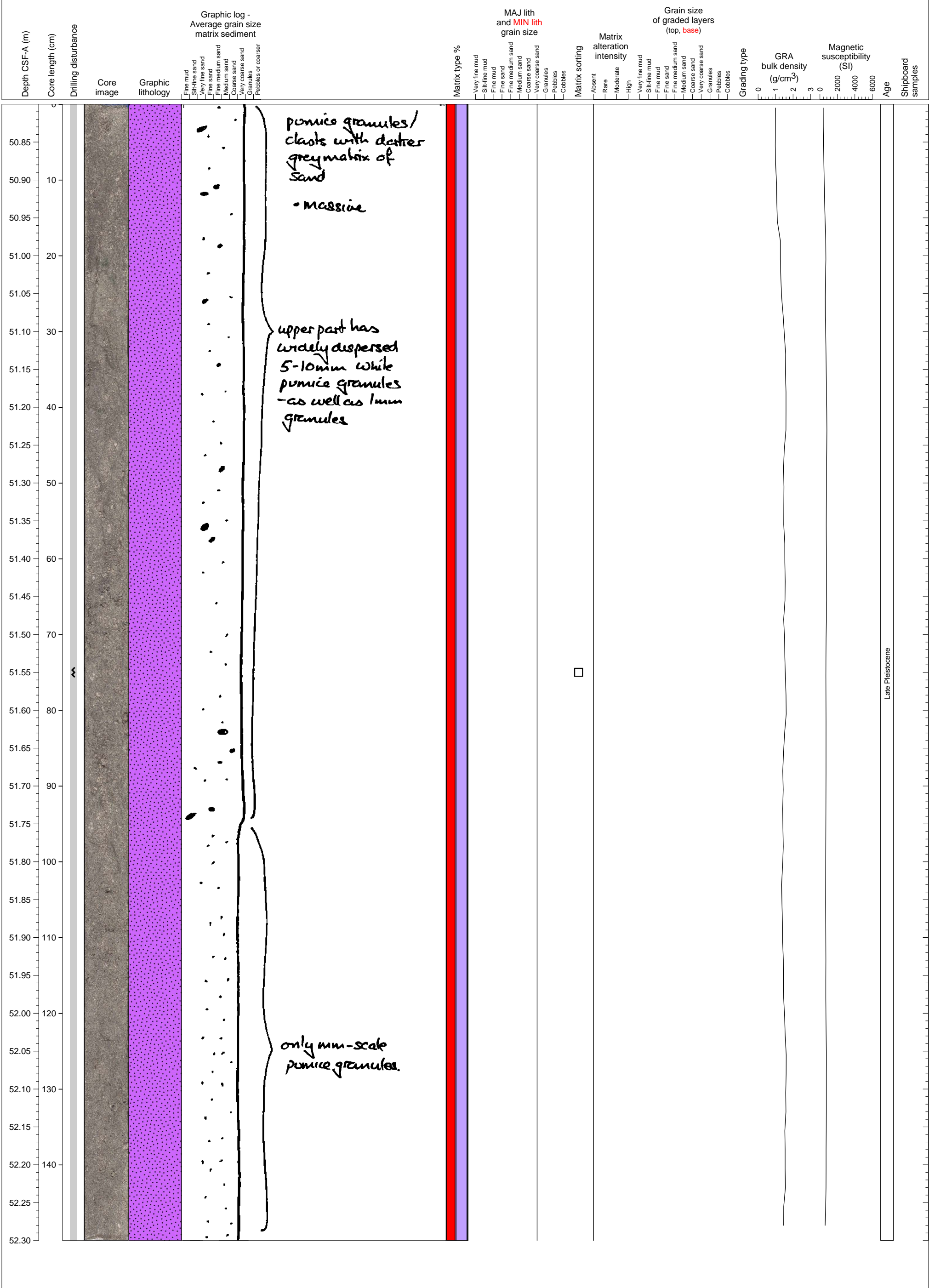
Pumice-rich volcanoclastic turbidite.



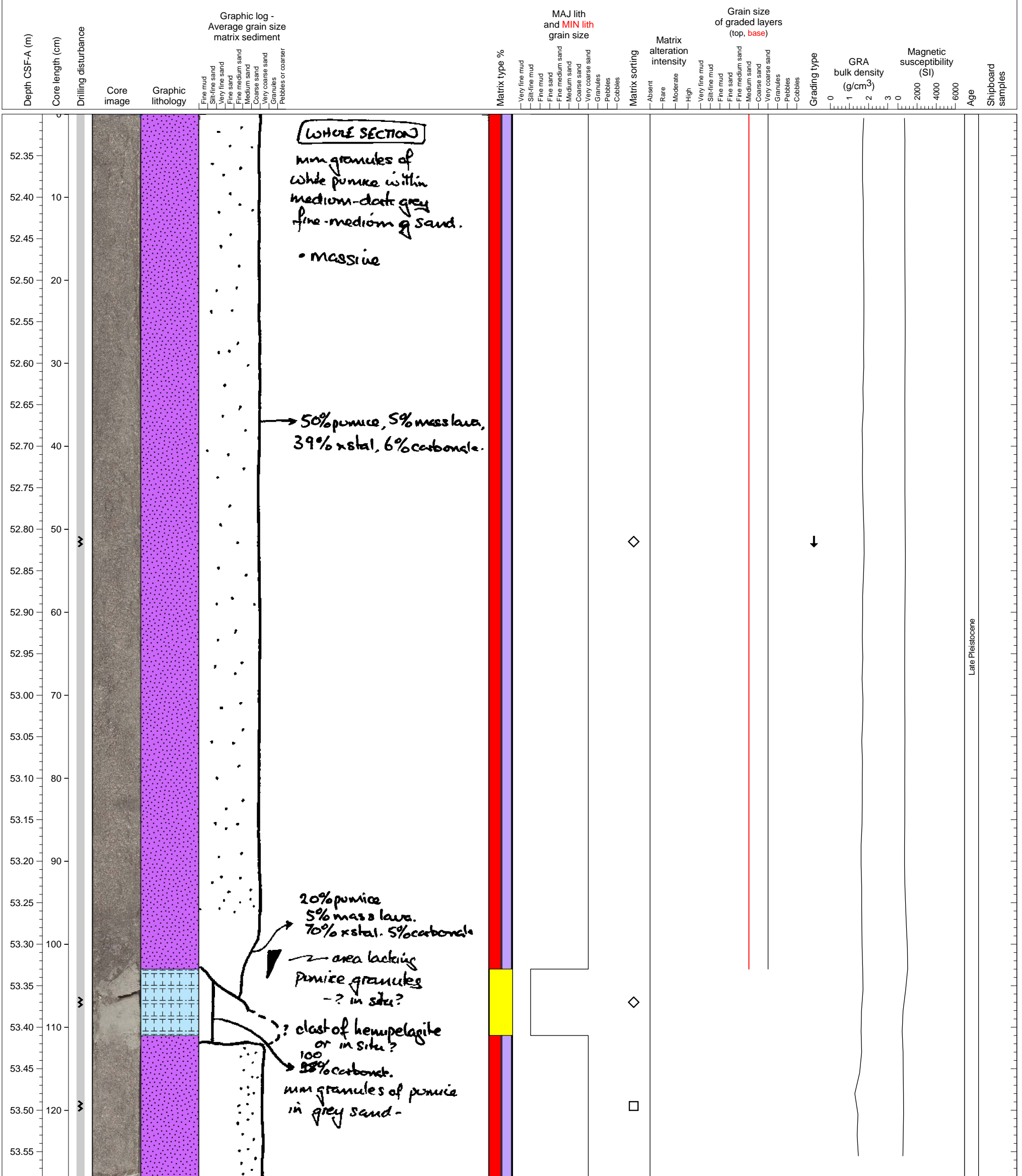
Pebble layer at top and an upper layered part of massive turbidite.



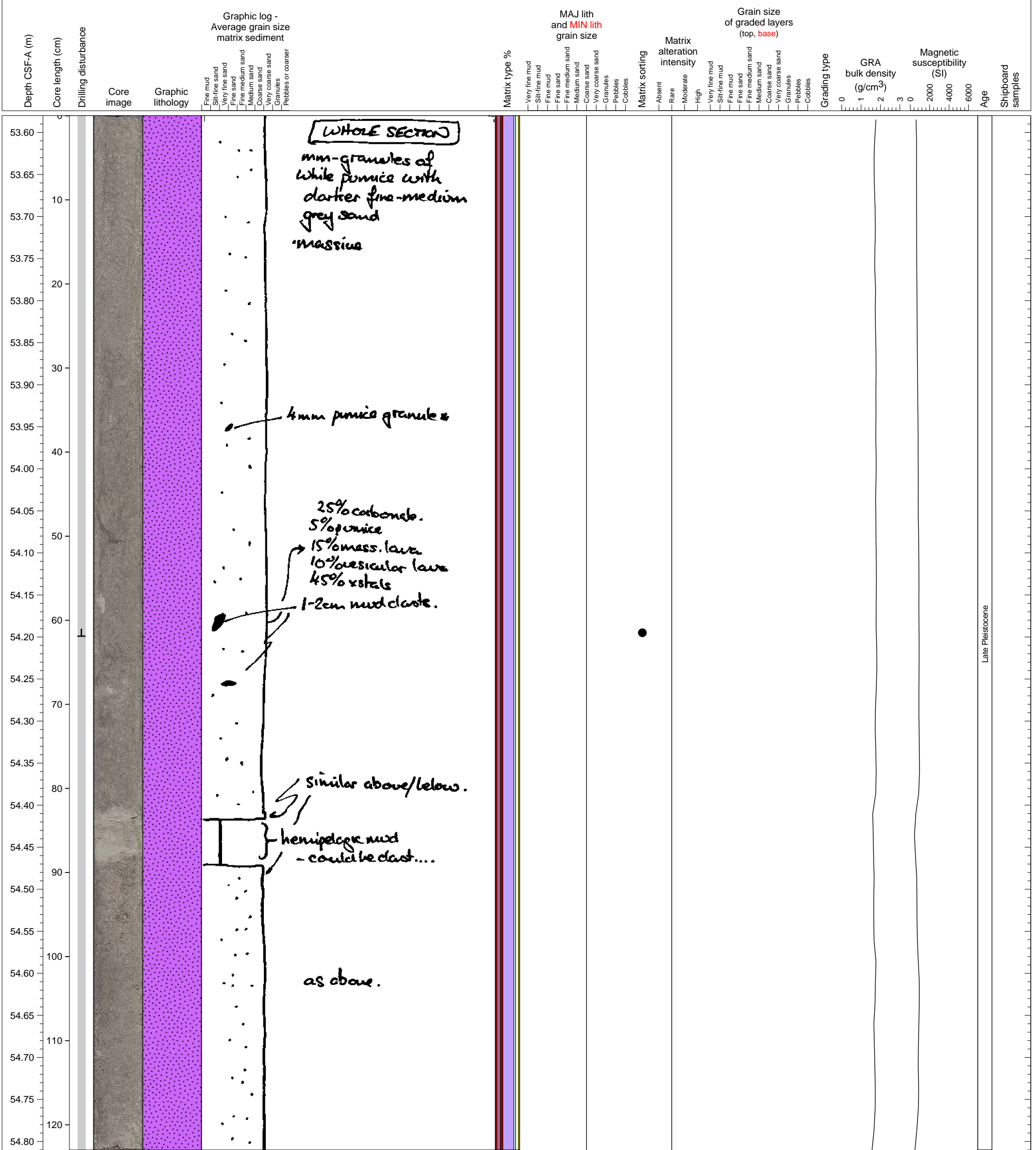
Massive pumiceous turbidite.



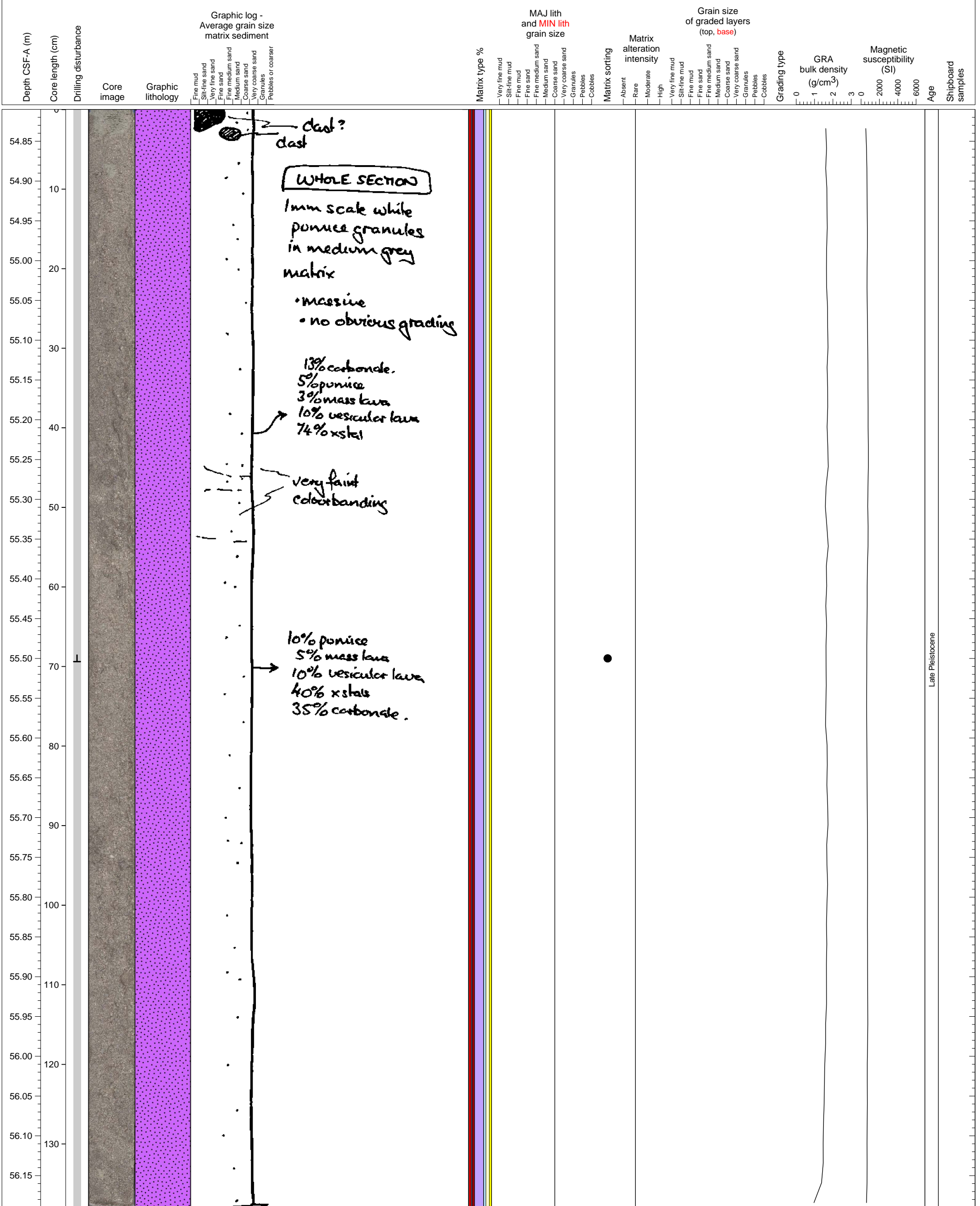
Massive pumiceous turbidite with reverse grading and hemipelagic clay (clast?).



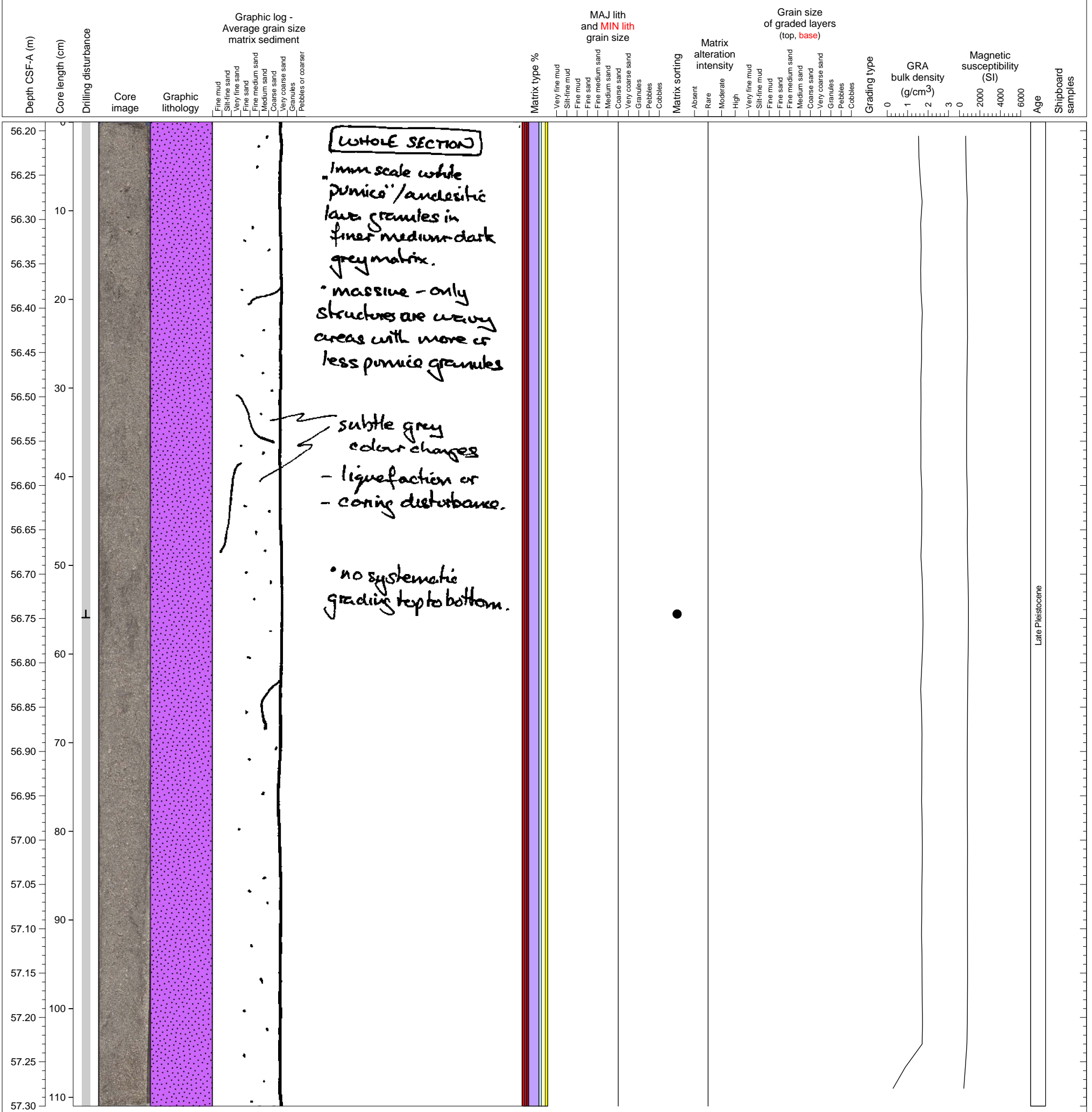
Volcaniclastic sand deposit.



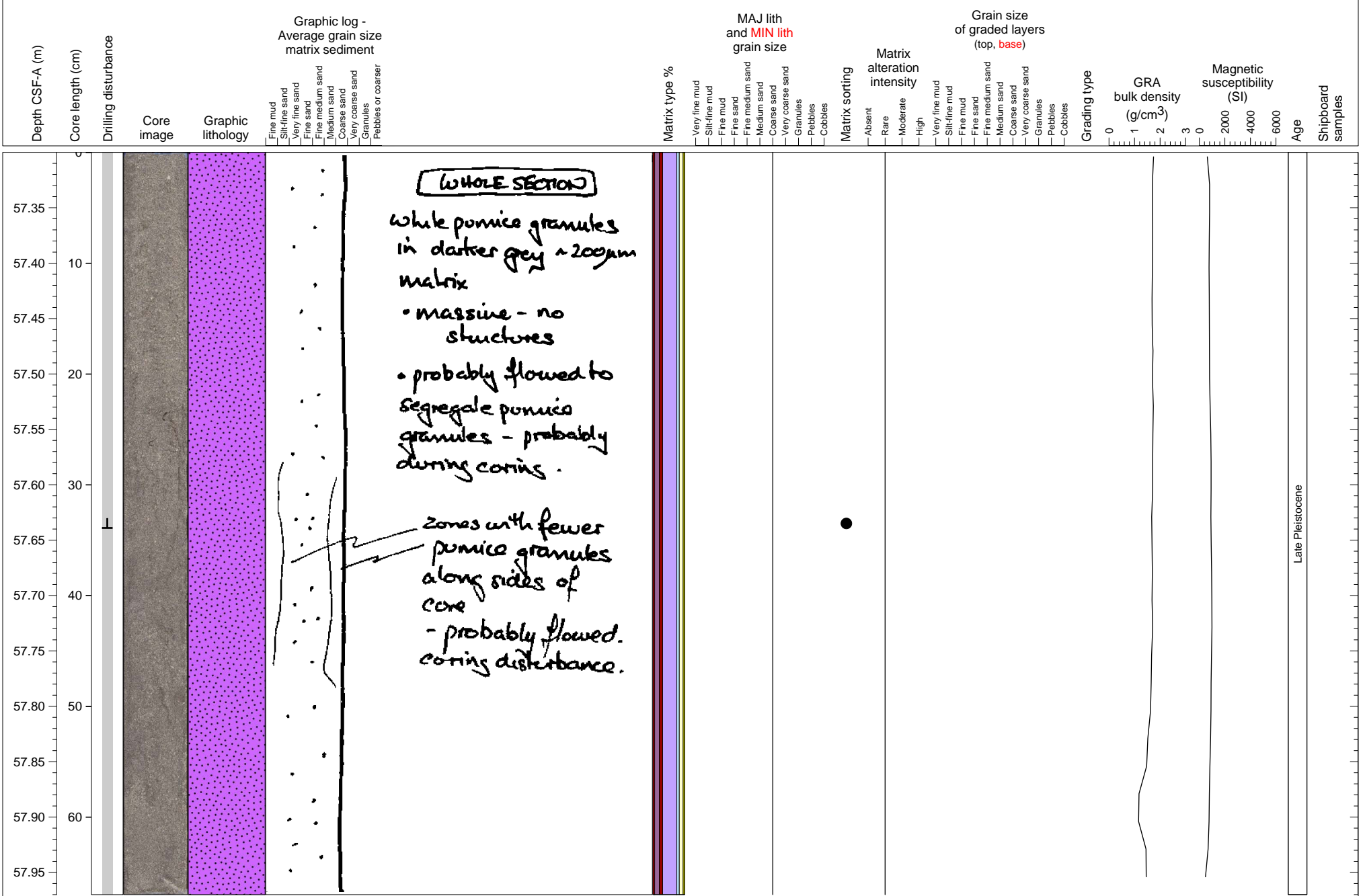
Volcaniclastic sand deposit.



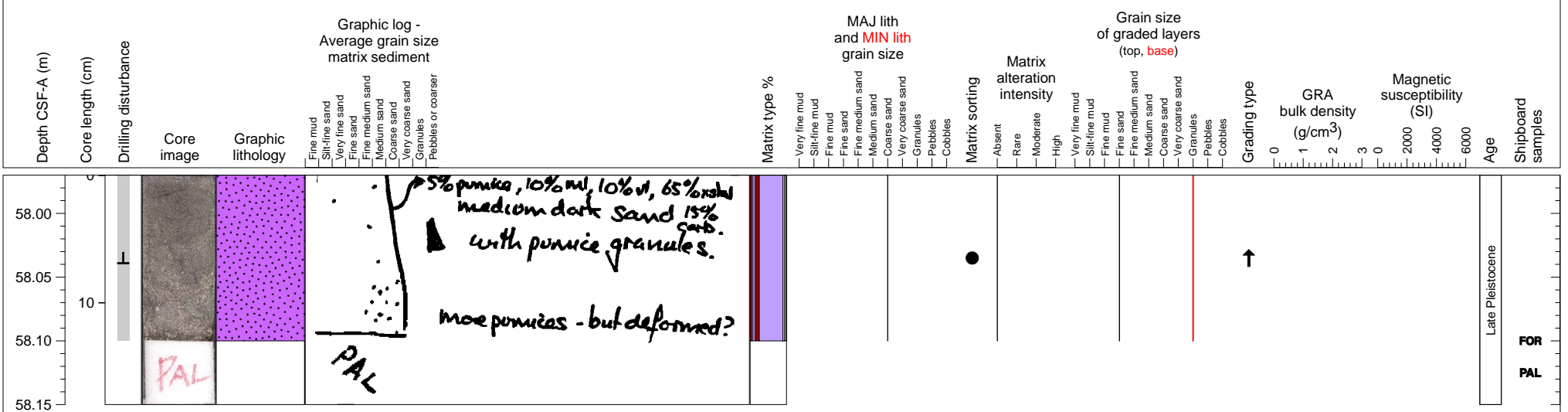
Volcaniclastic sand deposit.



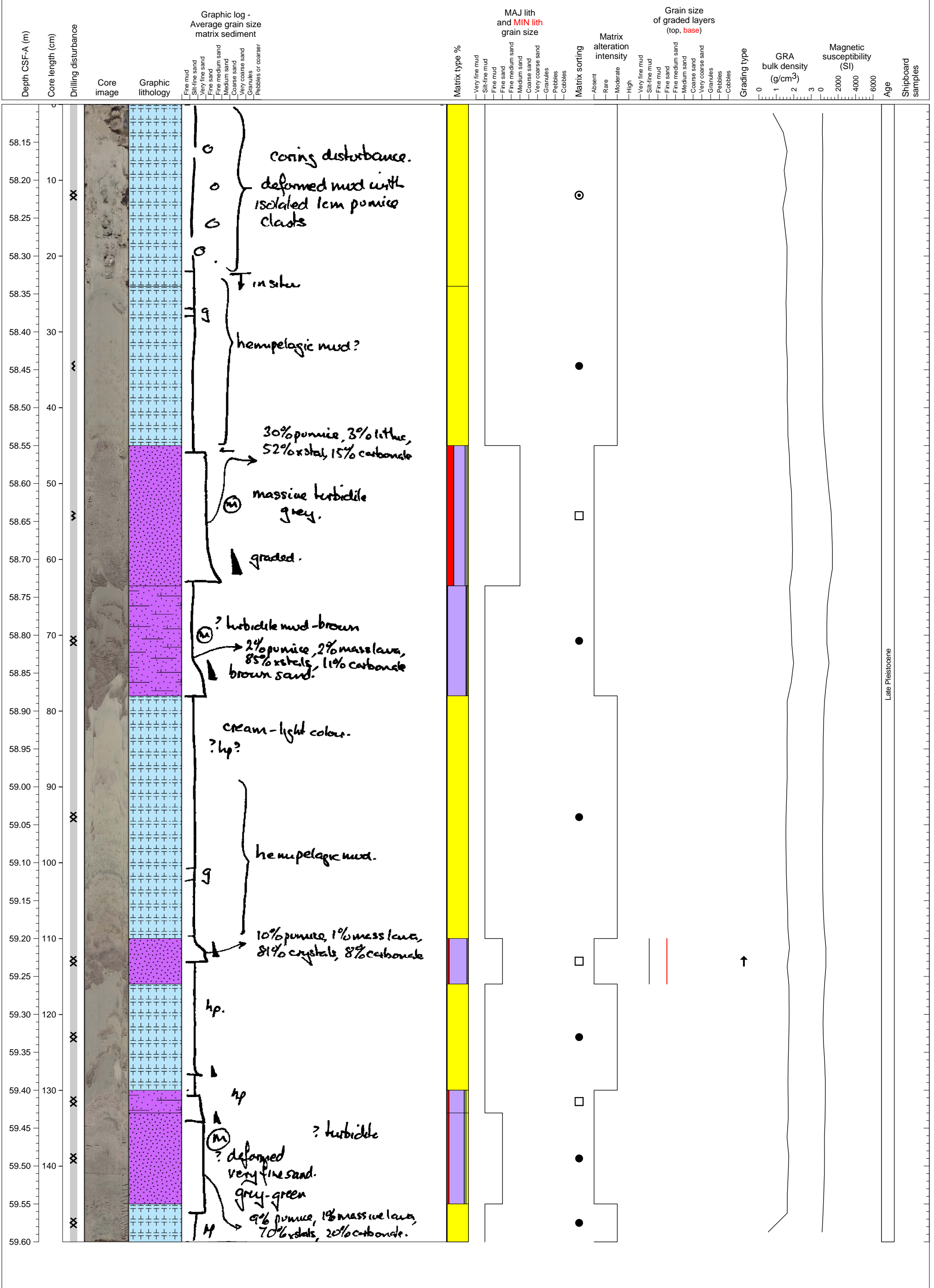
Volcaniclastic sand deposit.



Volcaniclastic sand deposit. PAL sample from base of section.

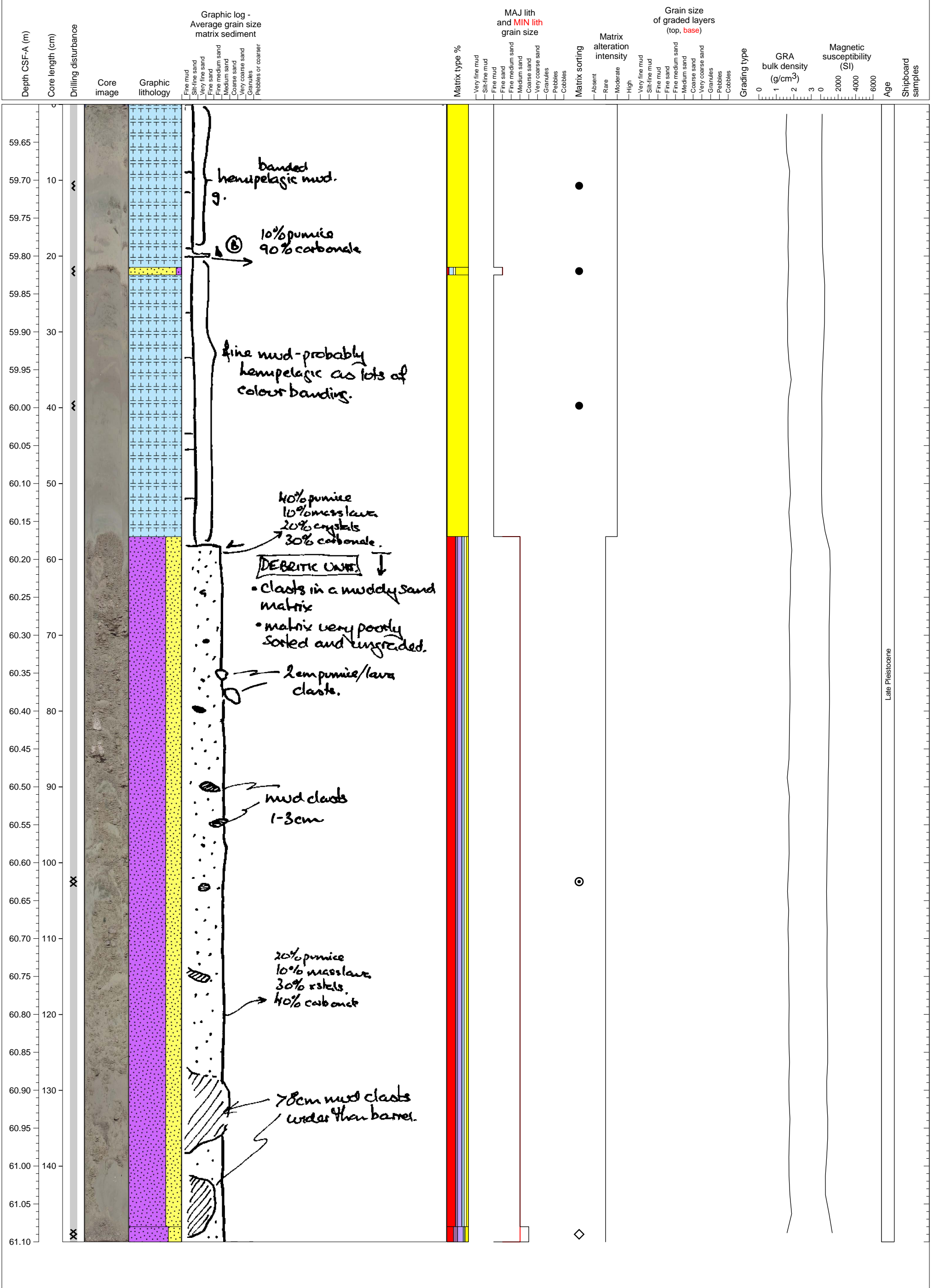


Hemipelagic clay interlayering with volcanoclastic sand layers.



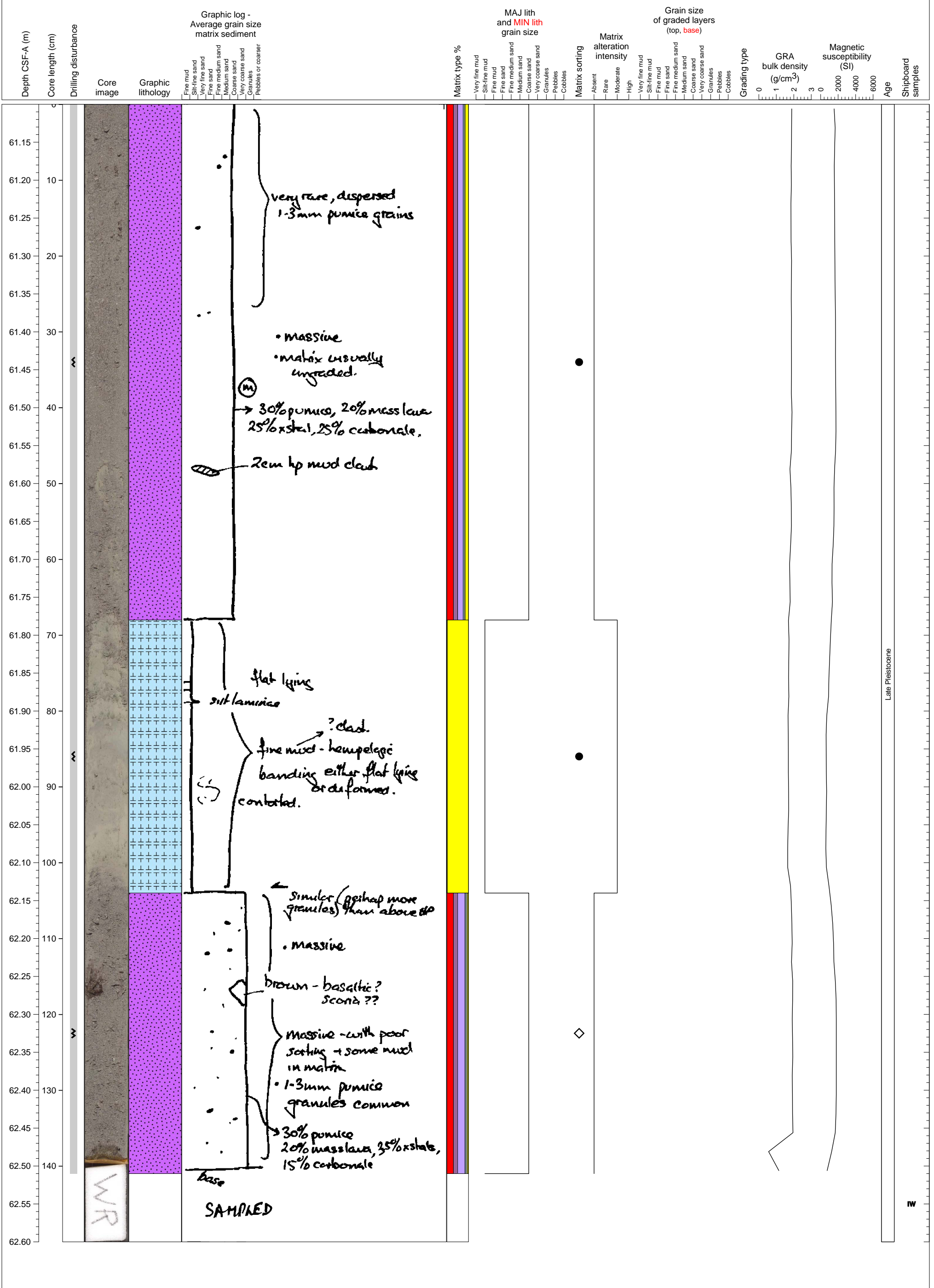
Late Pleistocene

Volcaniclastic sand containing pumice clasts and hemipelagic clay clasts. Clay clasts may be caused by drilling disturbance.

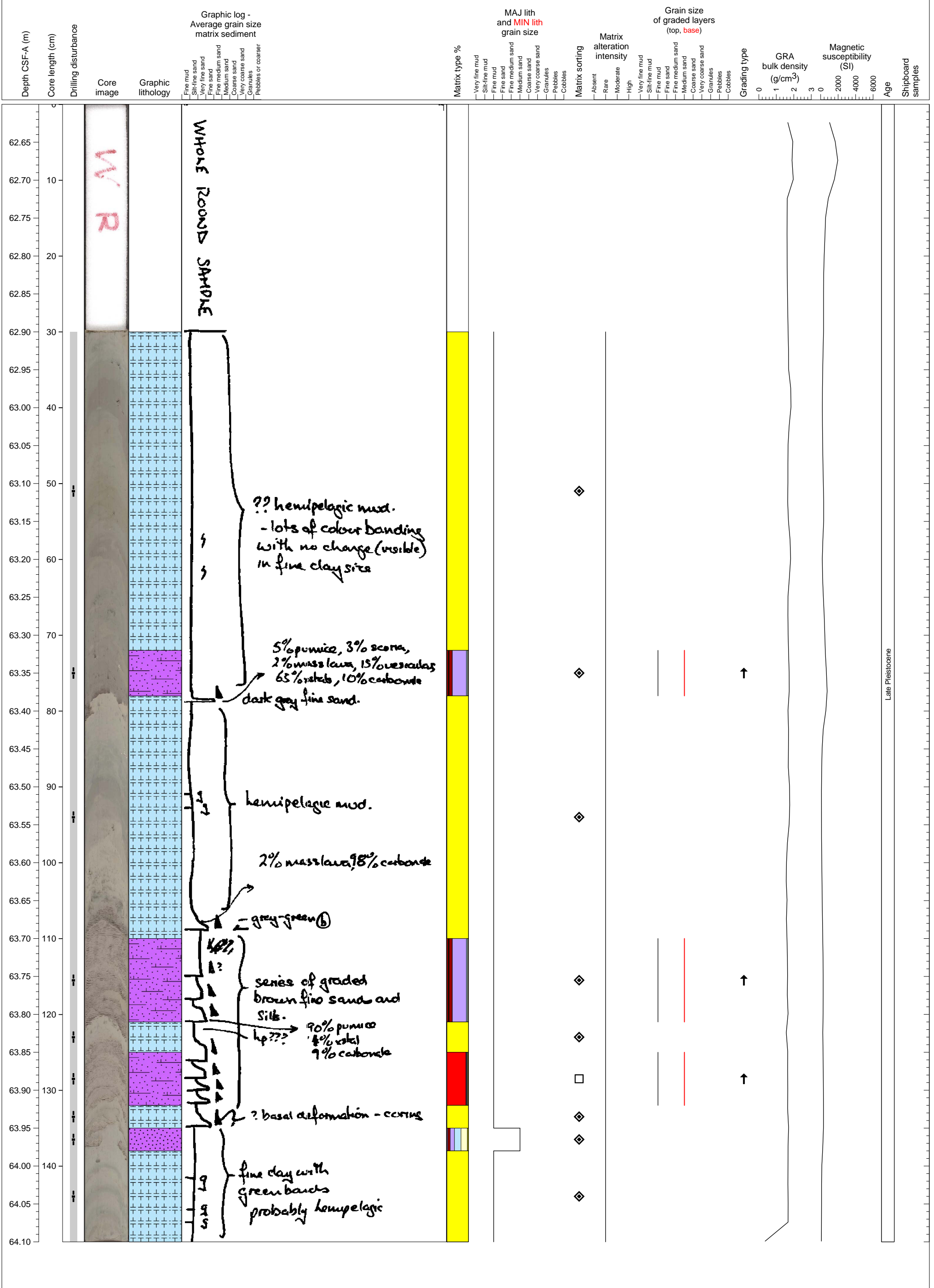


Late Pleistocene

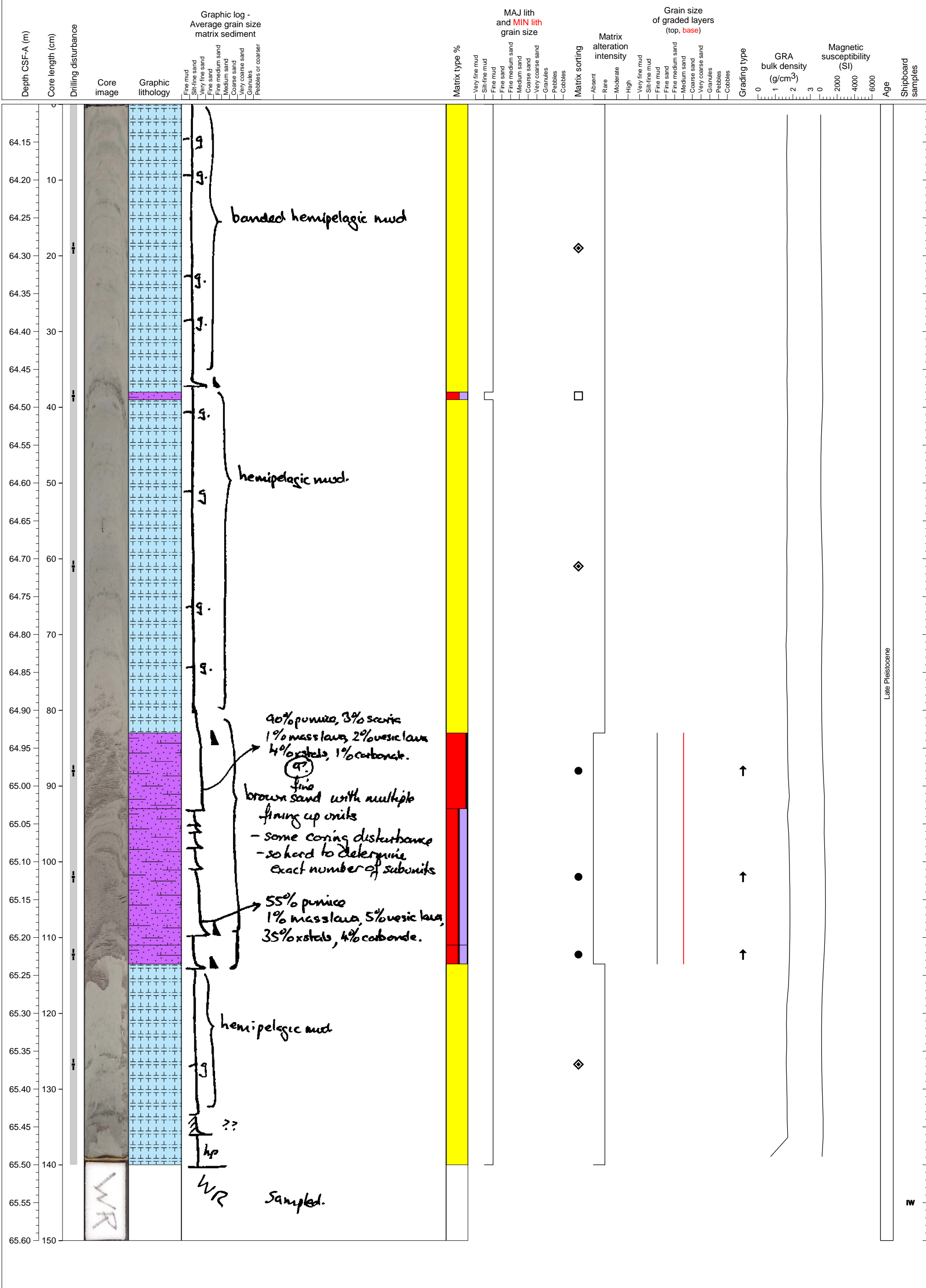
Massive volcanoclastic sand units interlayering with hemipelagic clay.



Hemipelagic clay interlayered with volcanoclastic units, many of which display normal gradation.



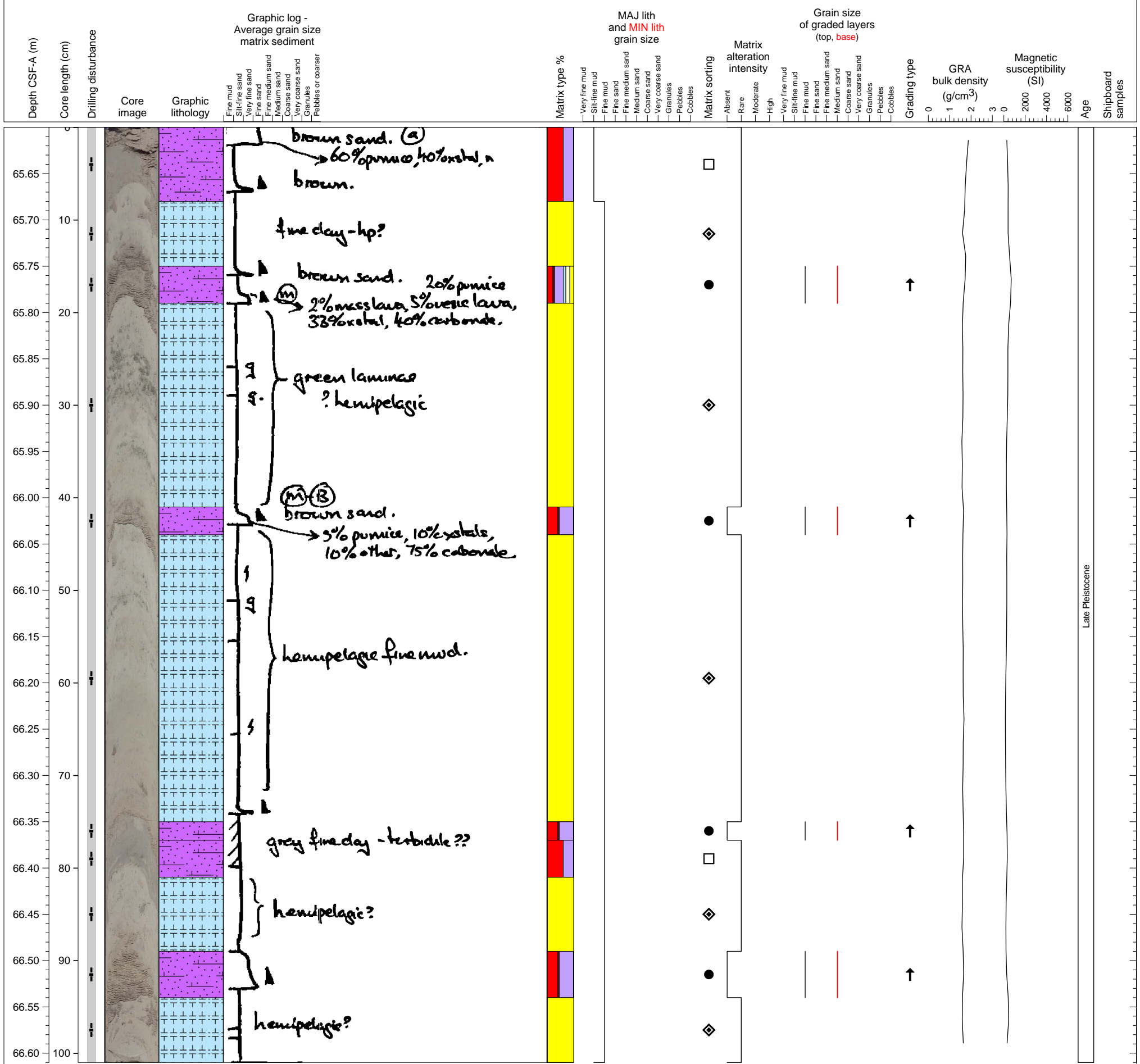
Hemipelagic clay interlayered with volcanoclastic units, many of them displaying normal grading.



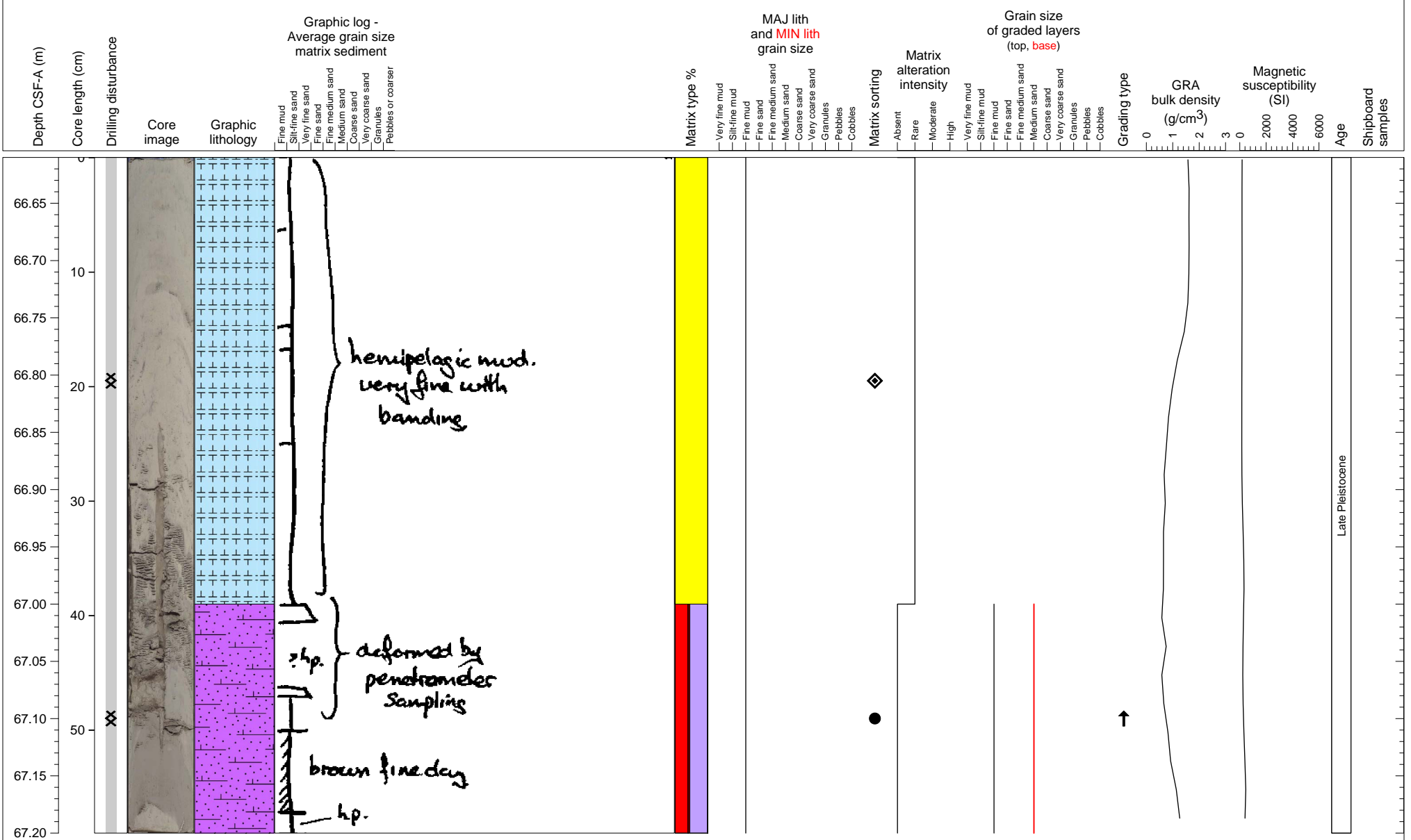
Late Pleistocene

WR

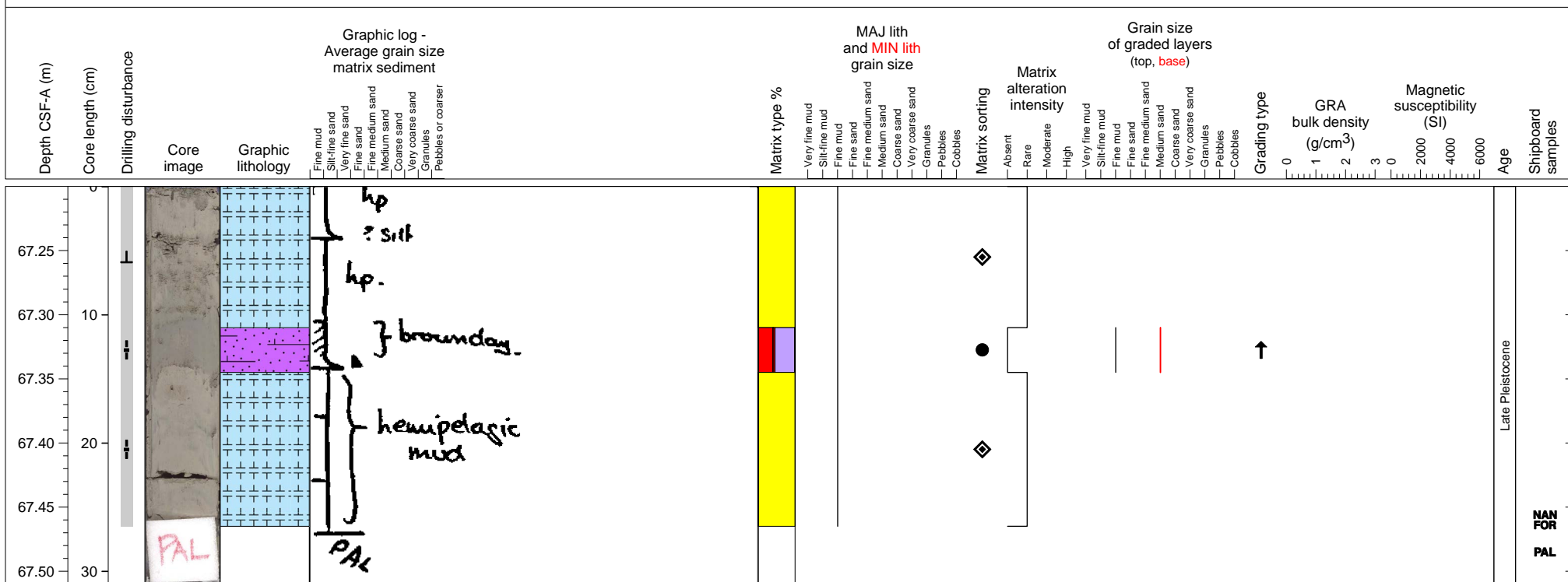
Hemipelagic clay interlayered with volcanoclastic units, many of which display normal grading.



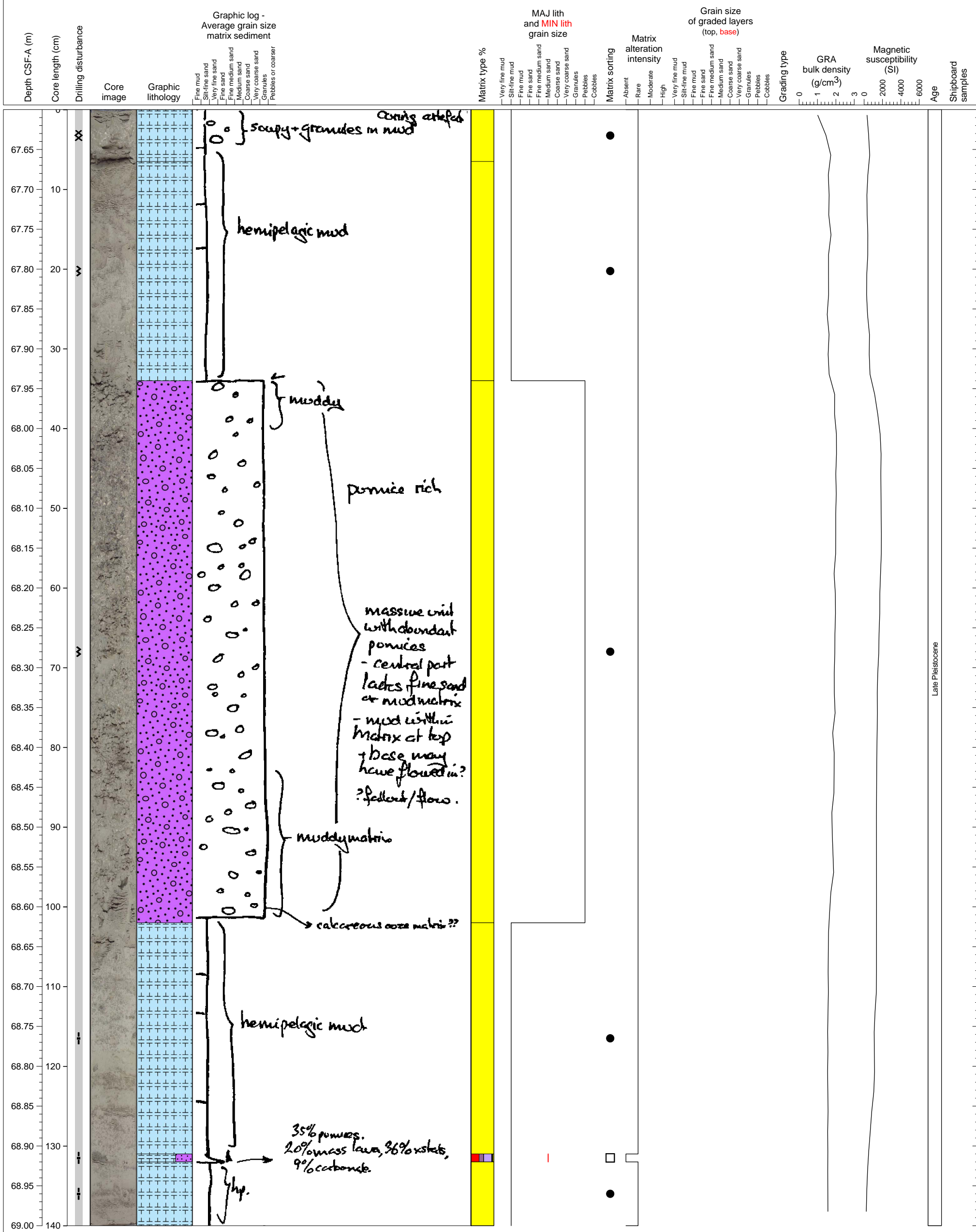
Hemipelagic clay overlying a normally graded volcanoclastic deposit.



Hemipelagic clay with a normally graded volcanoclastic layer. PAL sample from base.

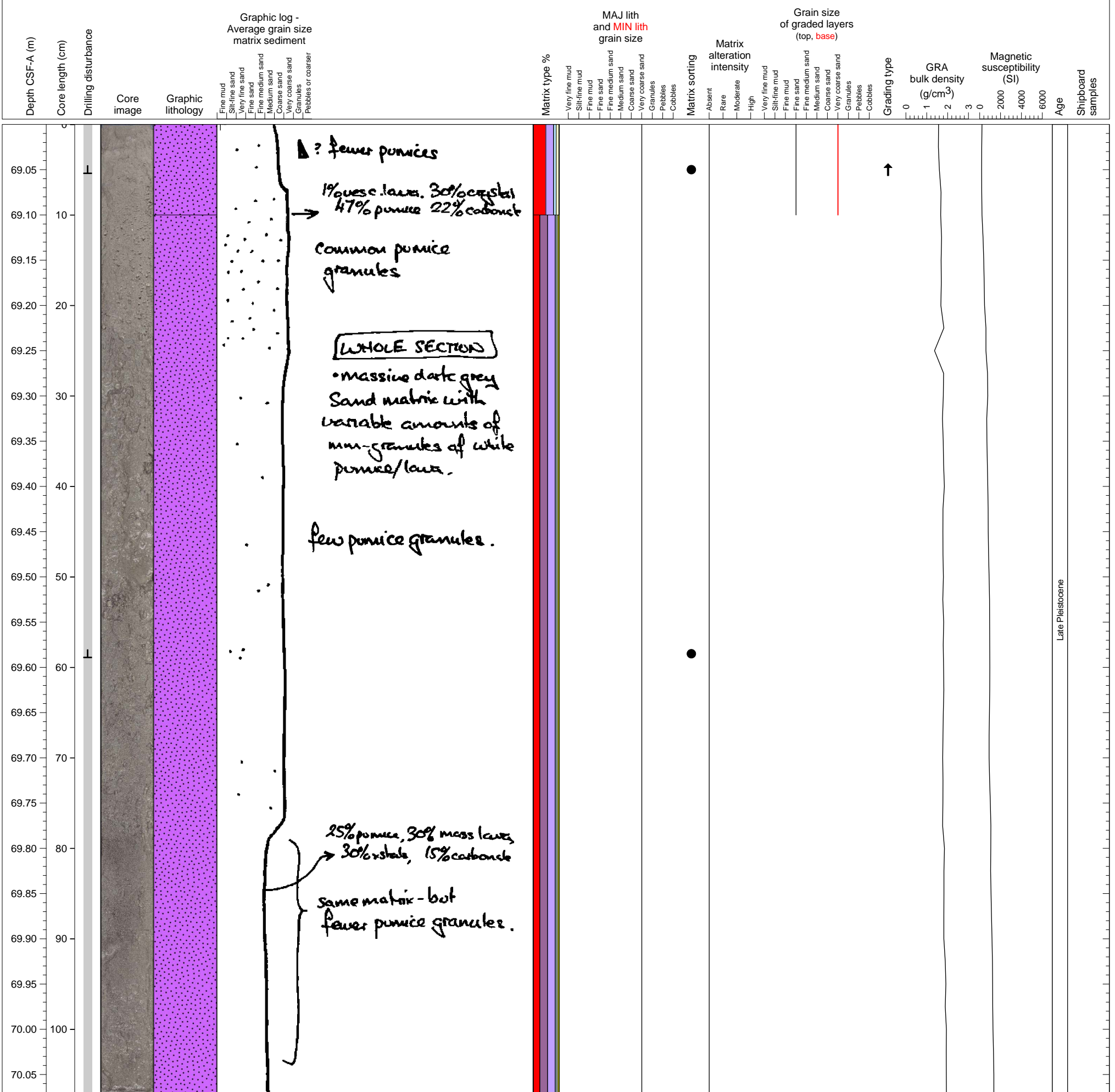


Massive volcanoclastic gravel sandwiched by hemipelagic clay. Hemipelagic clay contains an ash pod.

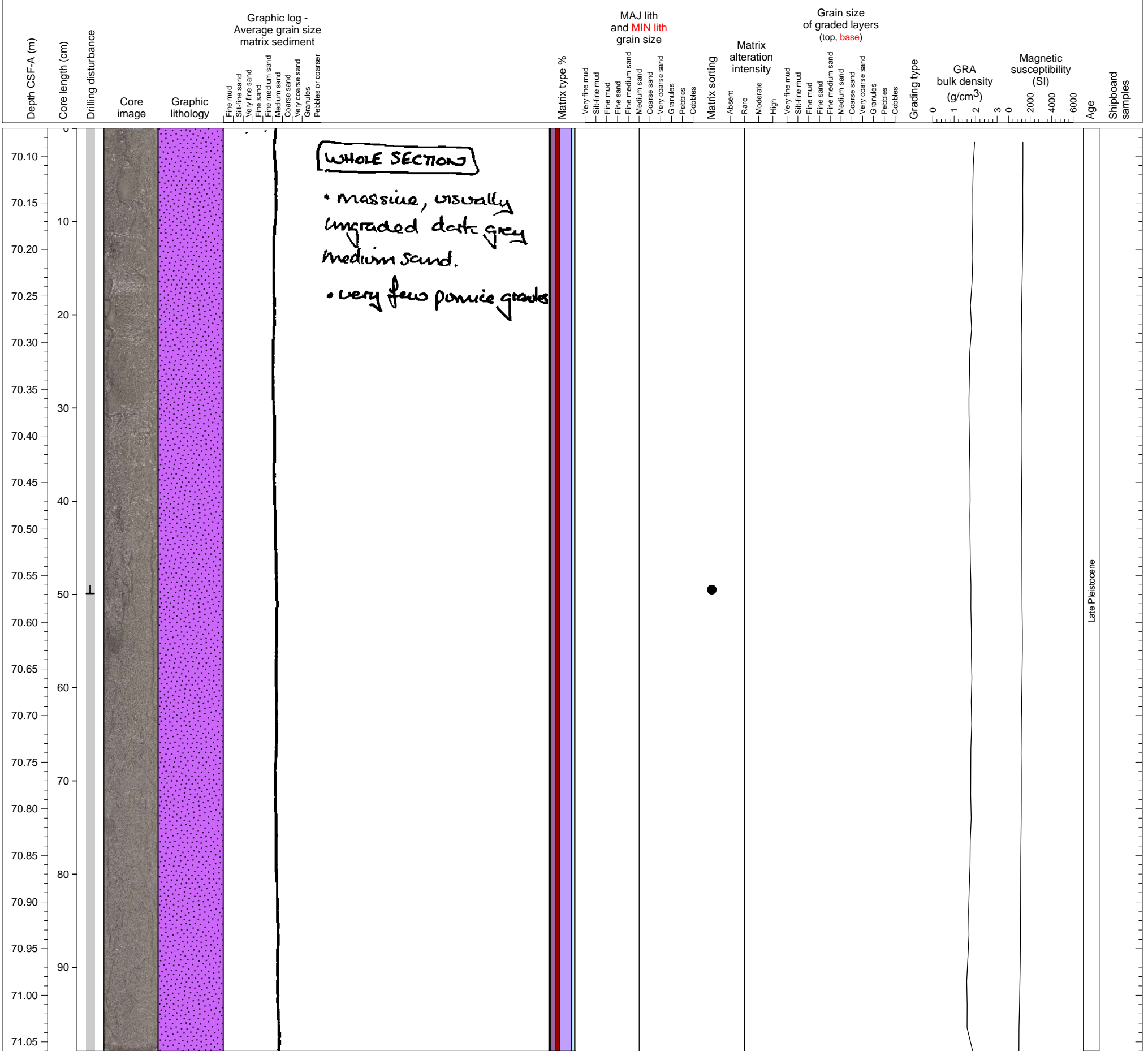


Late Pleistocene

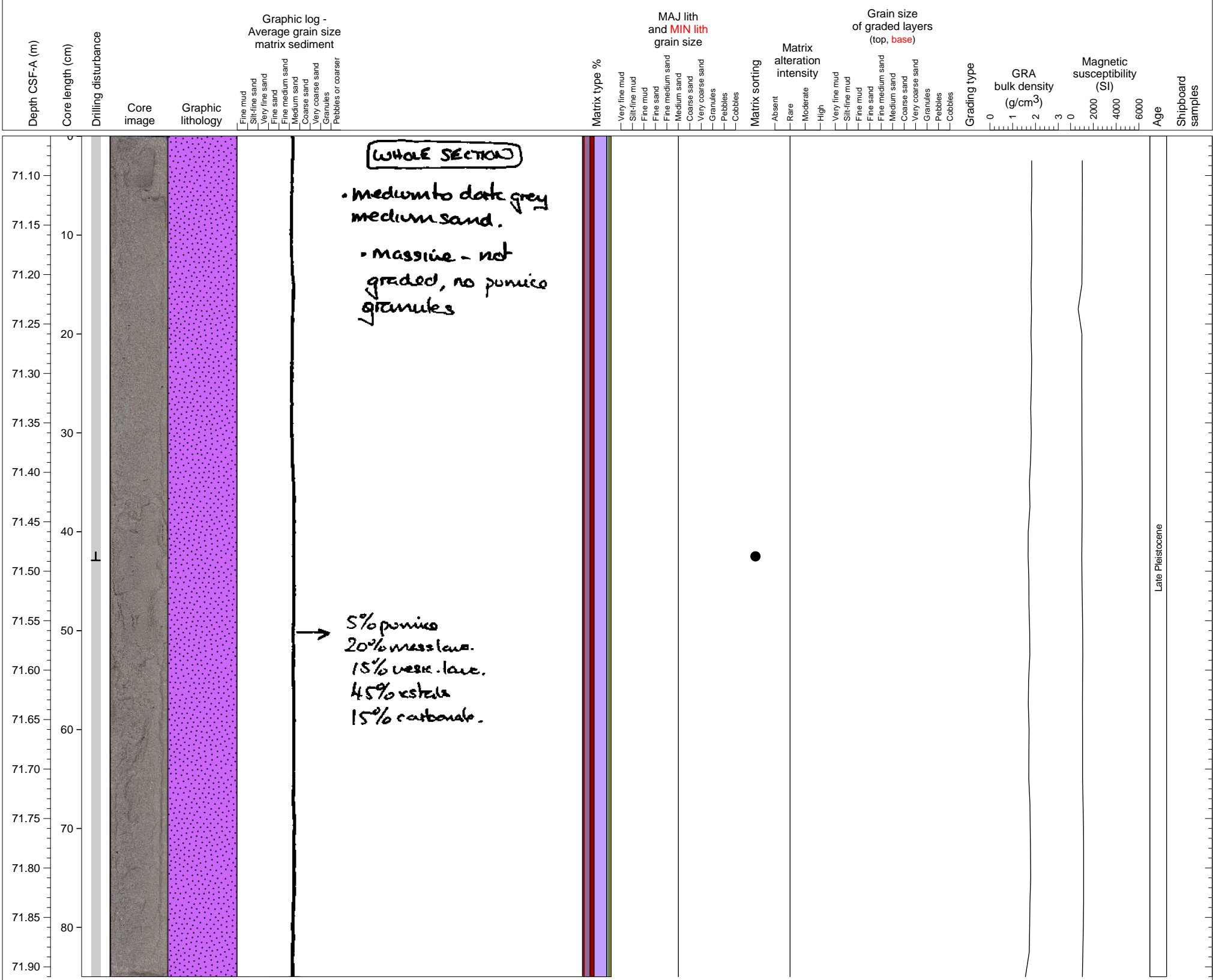
Massive pumiceous sand containing pebble-sized pumice clasts. The top of this unit is normally graded.



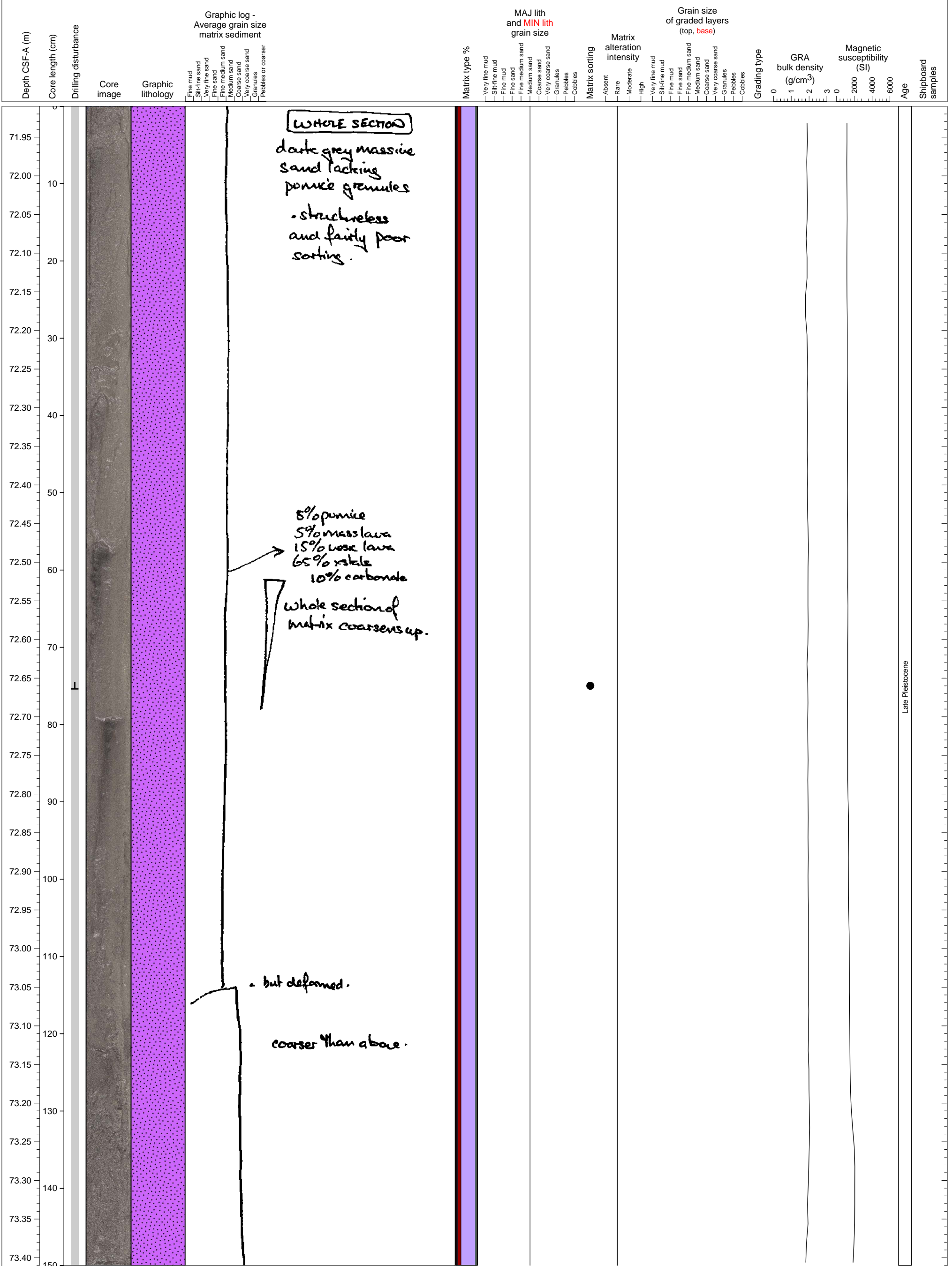
Medium-grained volcanoclastic sand unit.



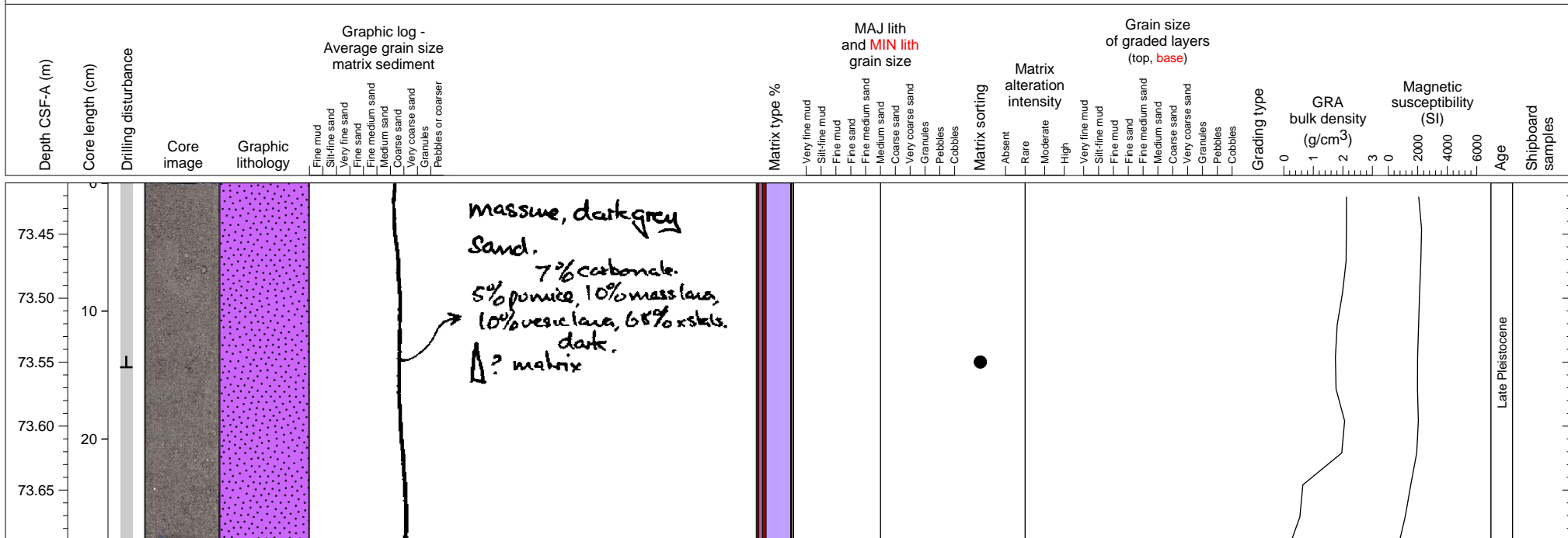
Medium-grained volcanoclastic sand unit.



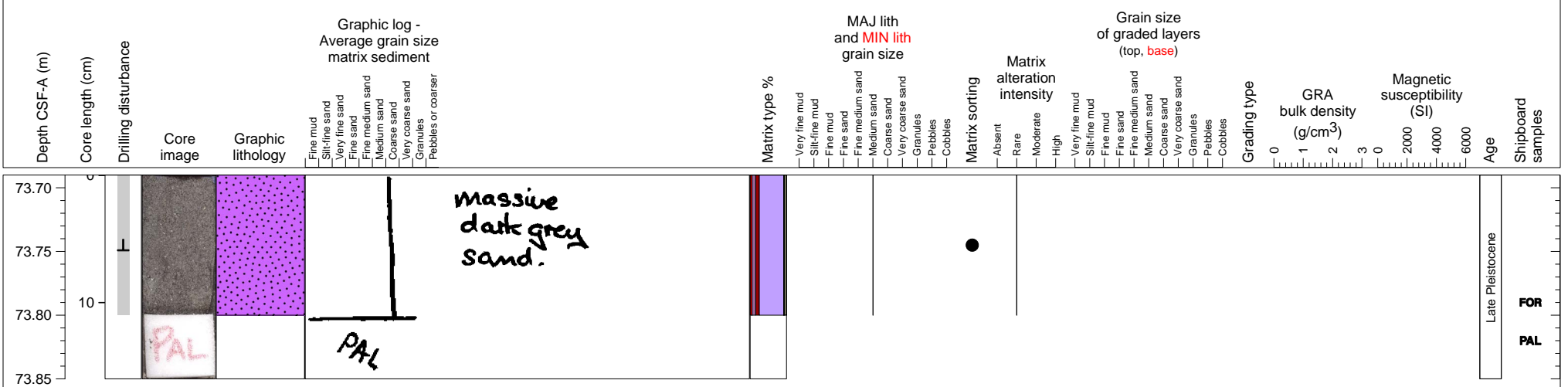
Medium-grained volcanoclastic sand unit.



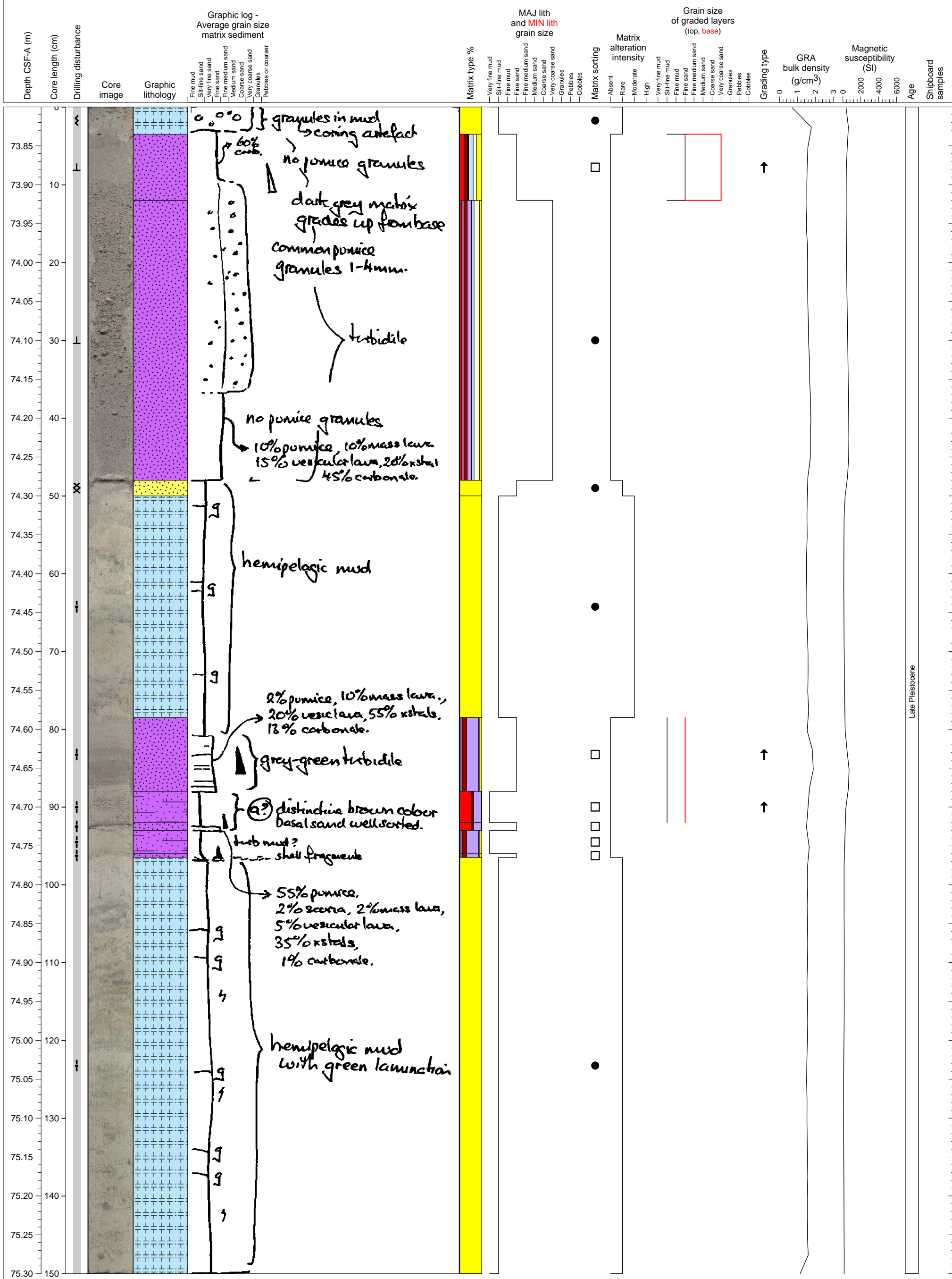
Medium-grained volcanoclastic sand unit.



Medium-grained volcanoclastic sand deposit.

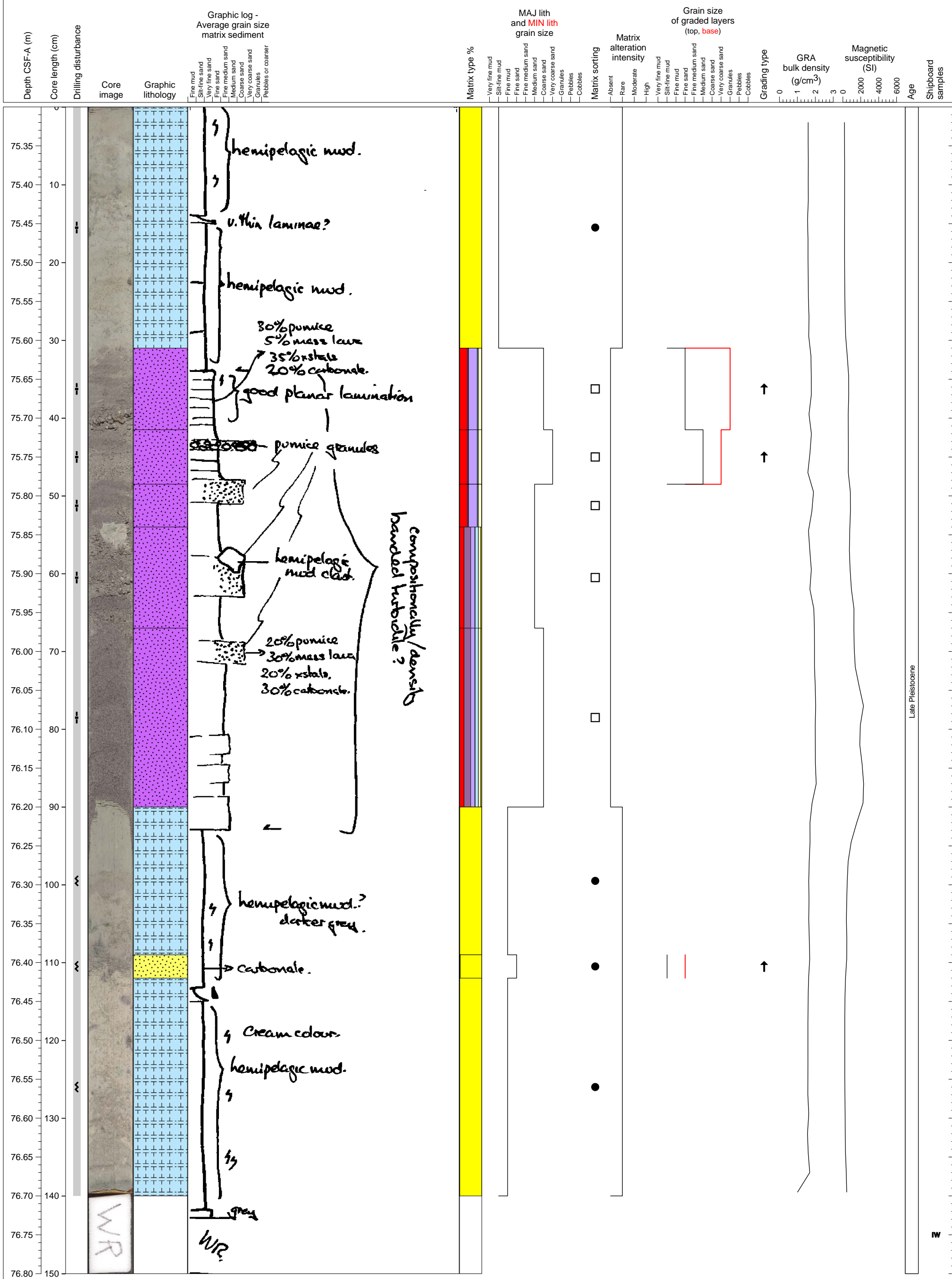


Volcaniclastic sand layers with grading and stratification intercalating hemipelagic sediments.

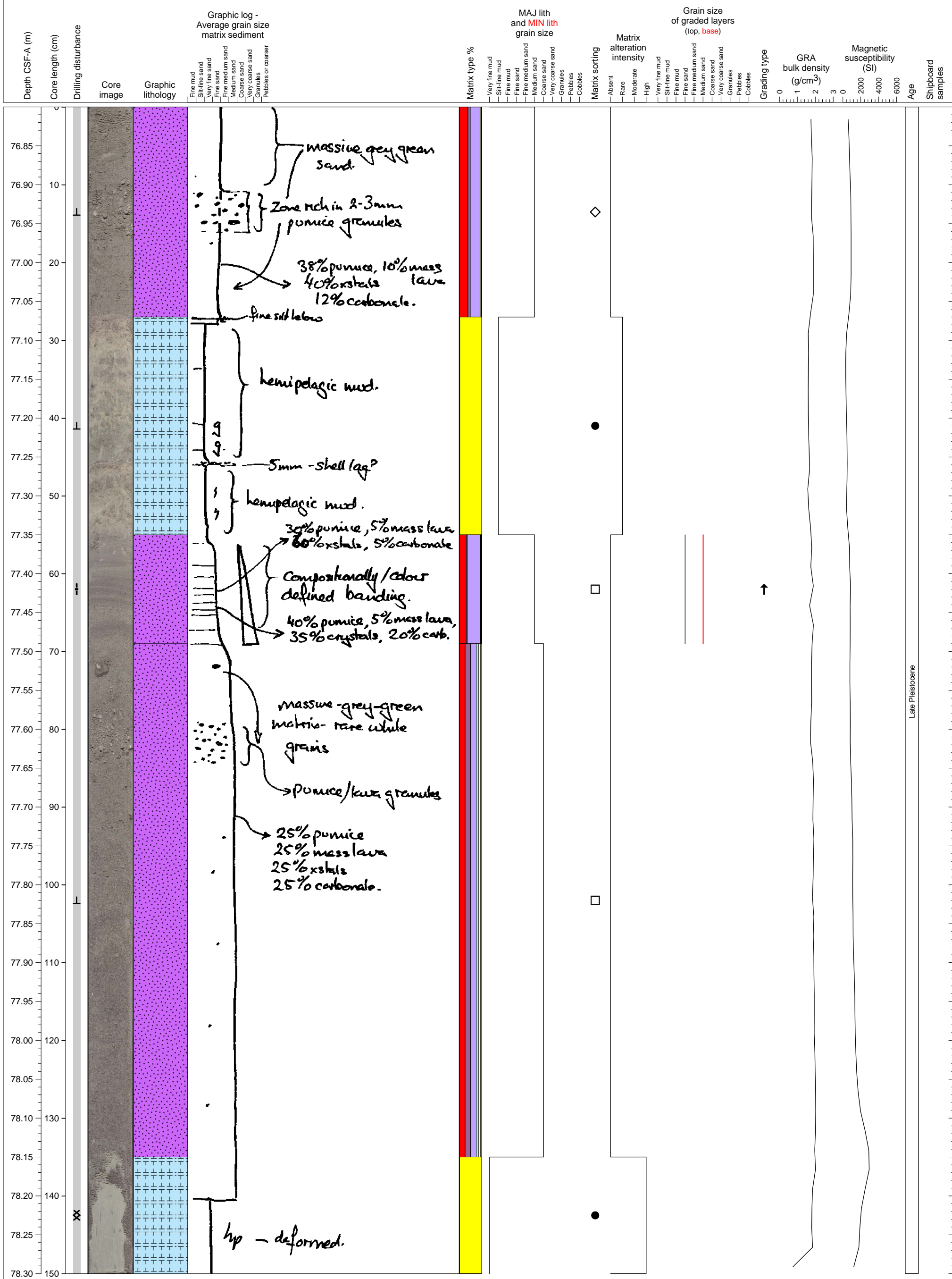


Late Pleistocene

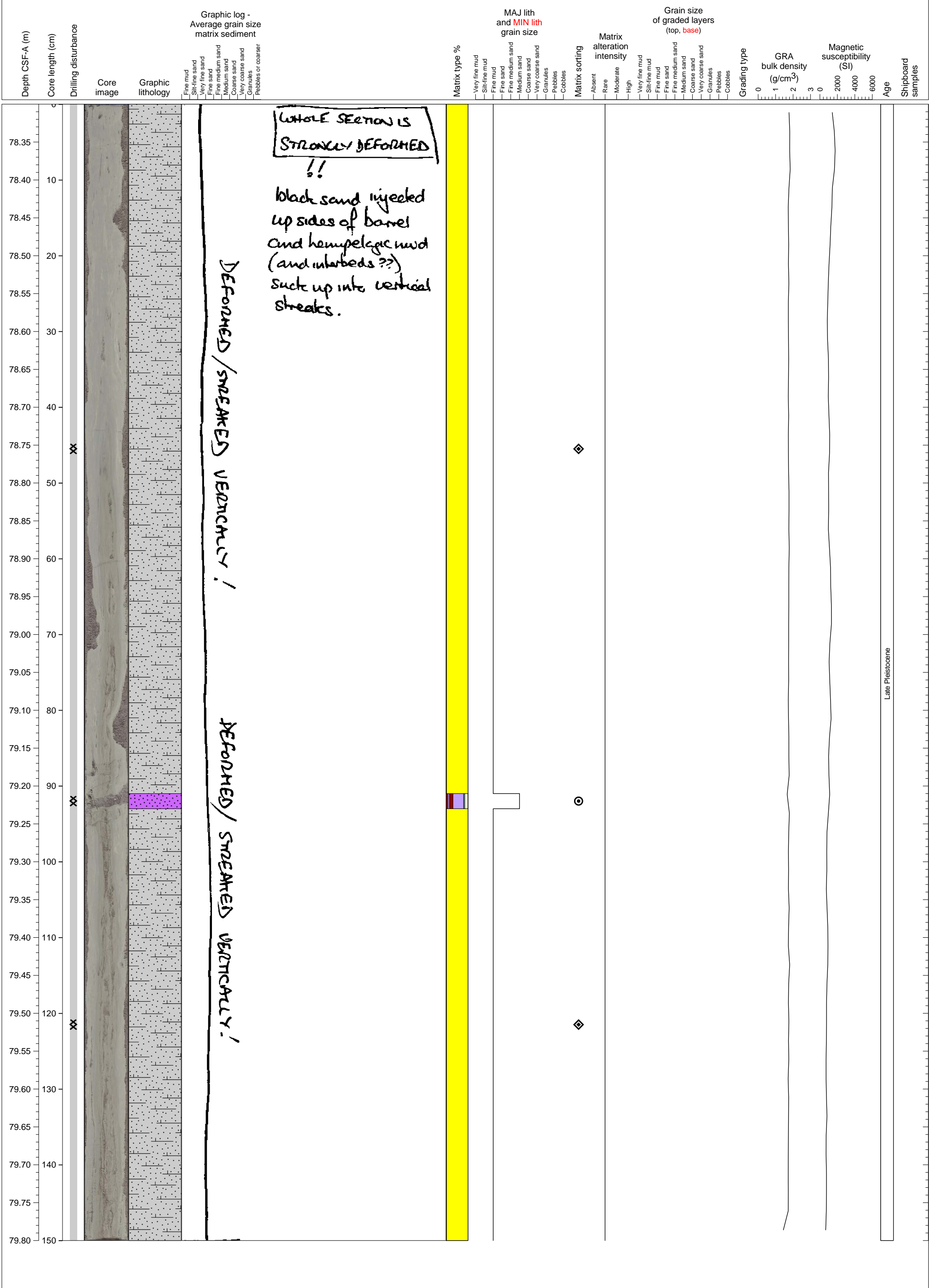
Volcaniclastic sand layers with cyclic pumice concentration layers with normal and reverse grading.



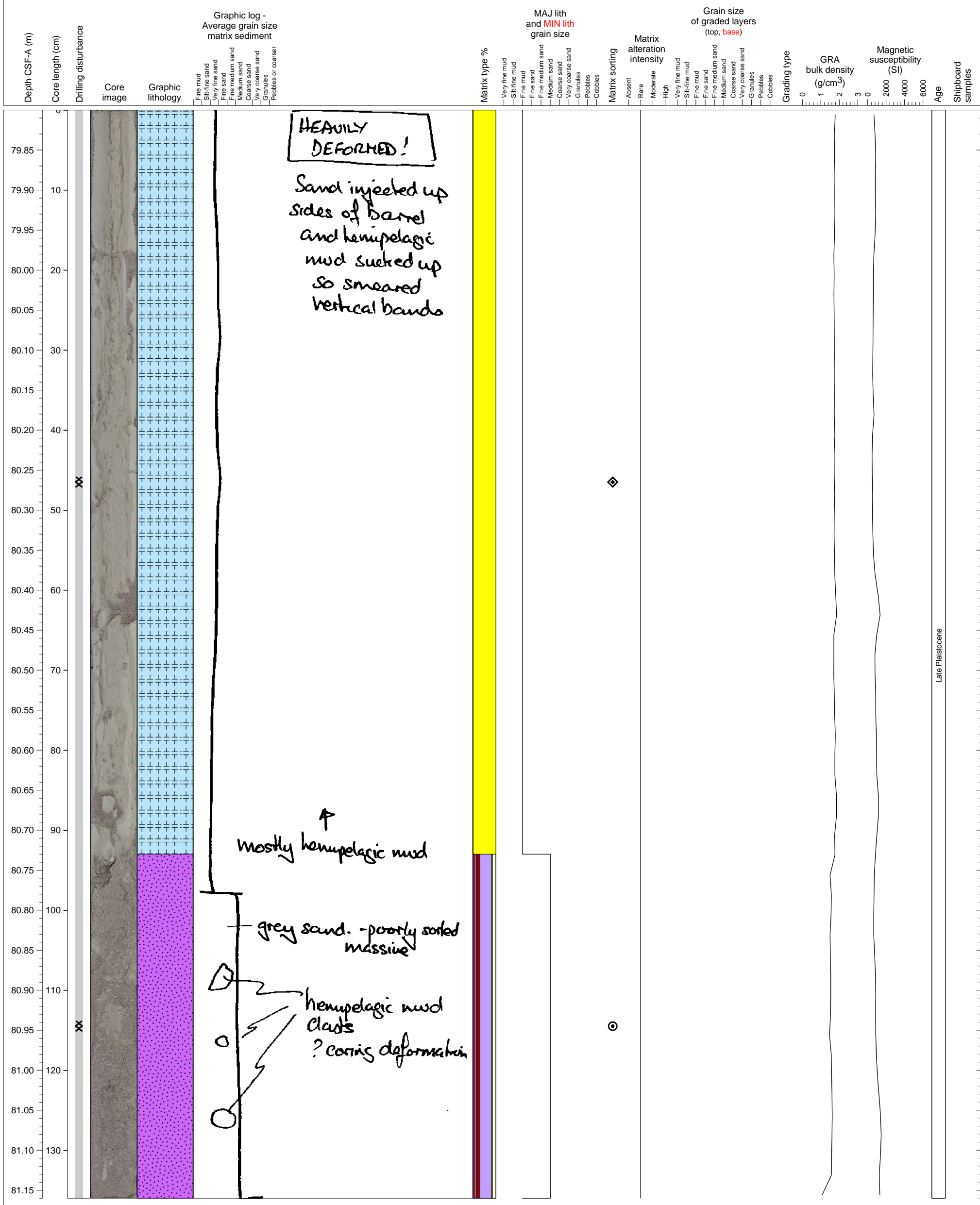
Volcaniclastic sand with grain-size and compositional layerings.



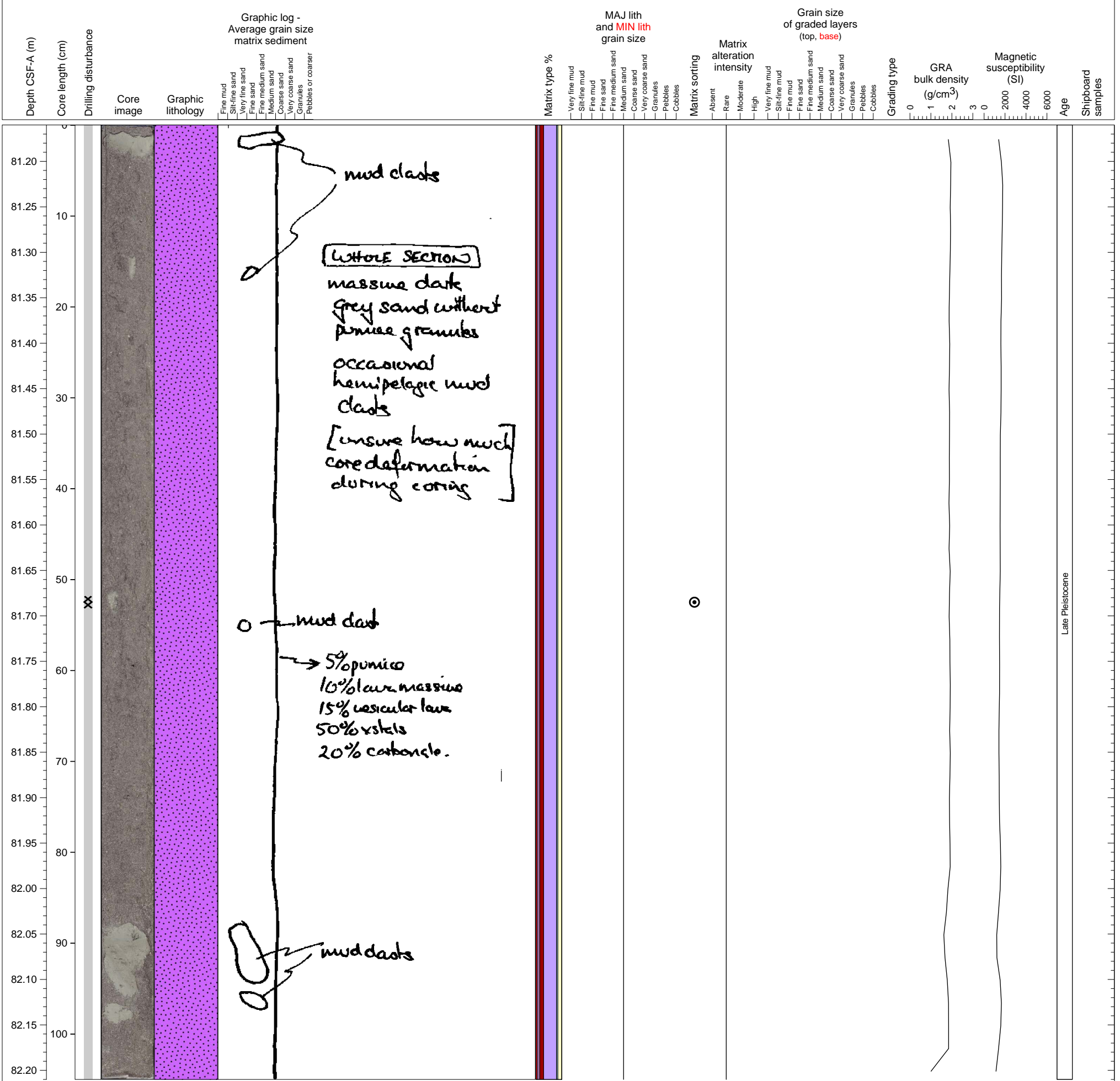
Hemipelagic clay. Sand injected all the way up the side of the core barrel in a massive drilling disturbance. All layering/stratigraphy features destroyed.



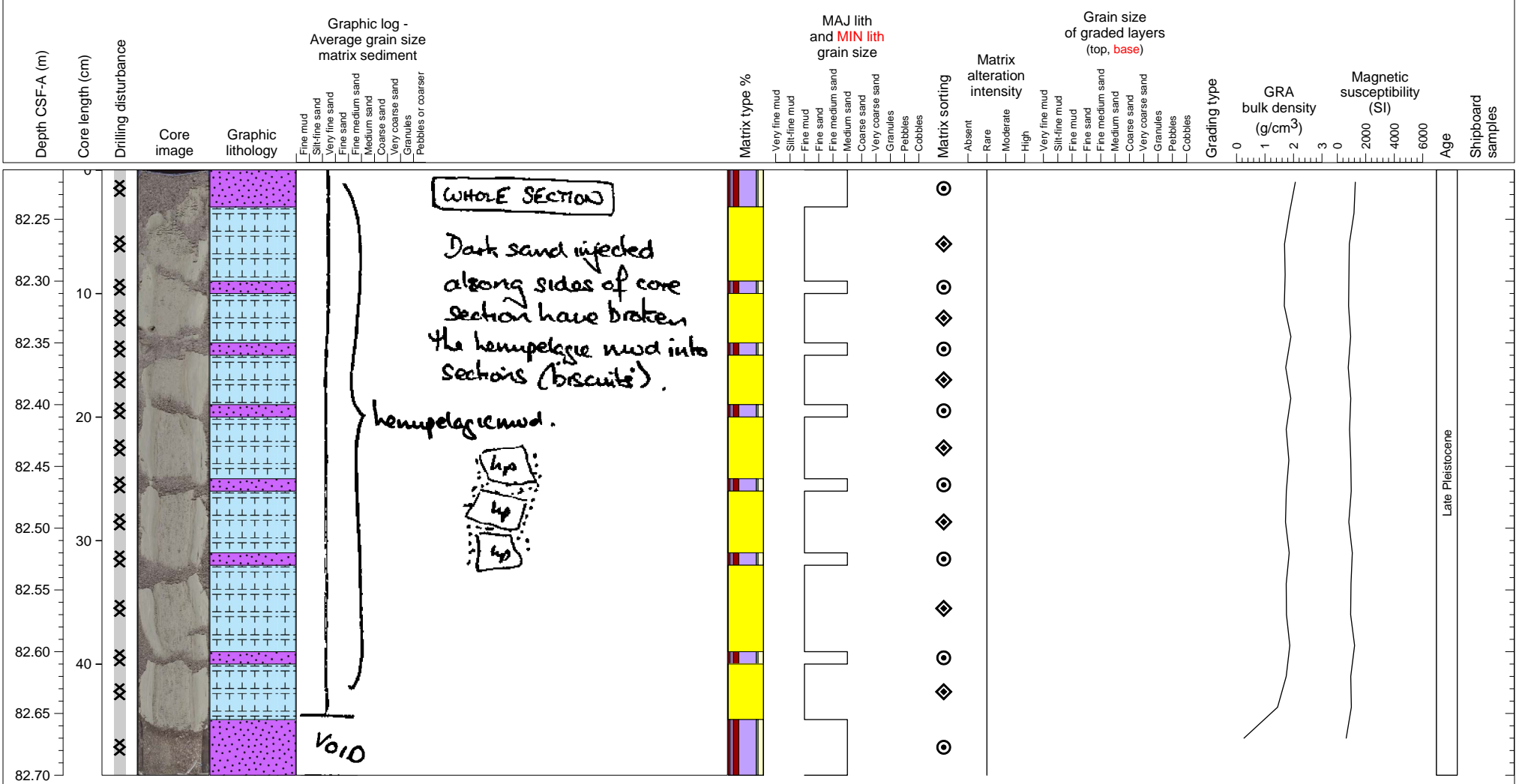
Hemipelagic clay overlying volcanoclastic sand unit. Sand injected on barrel sides from massive drilling disturbance. All layering/stratigraphy destroyed.



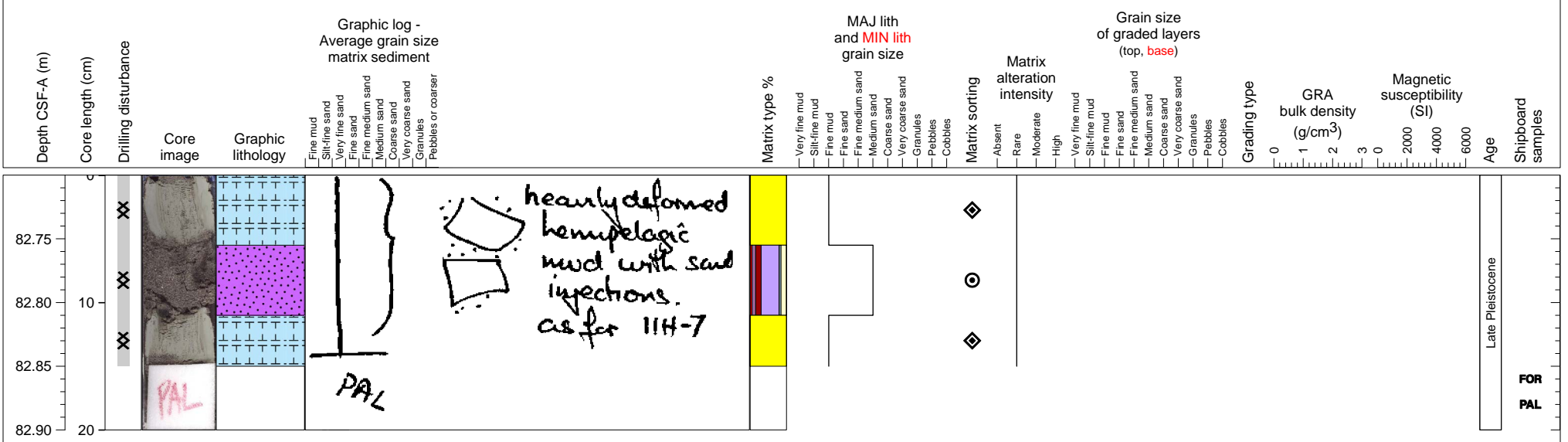
Volcaniclastic sand unit with large mud clasts.



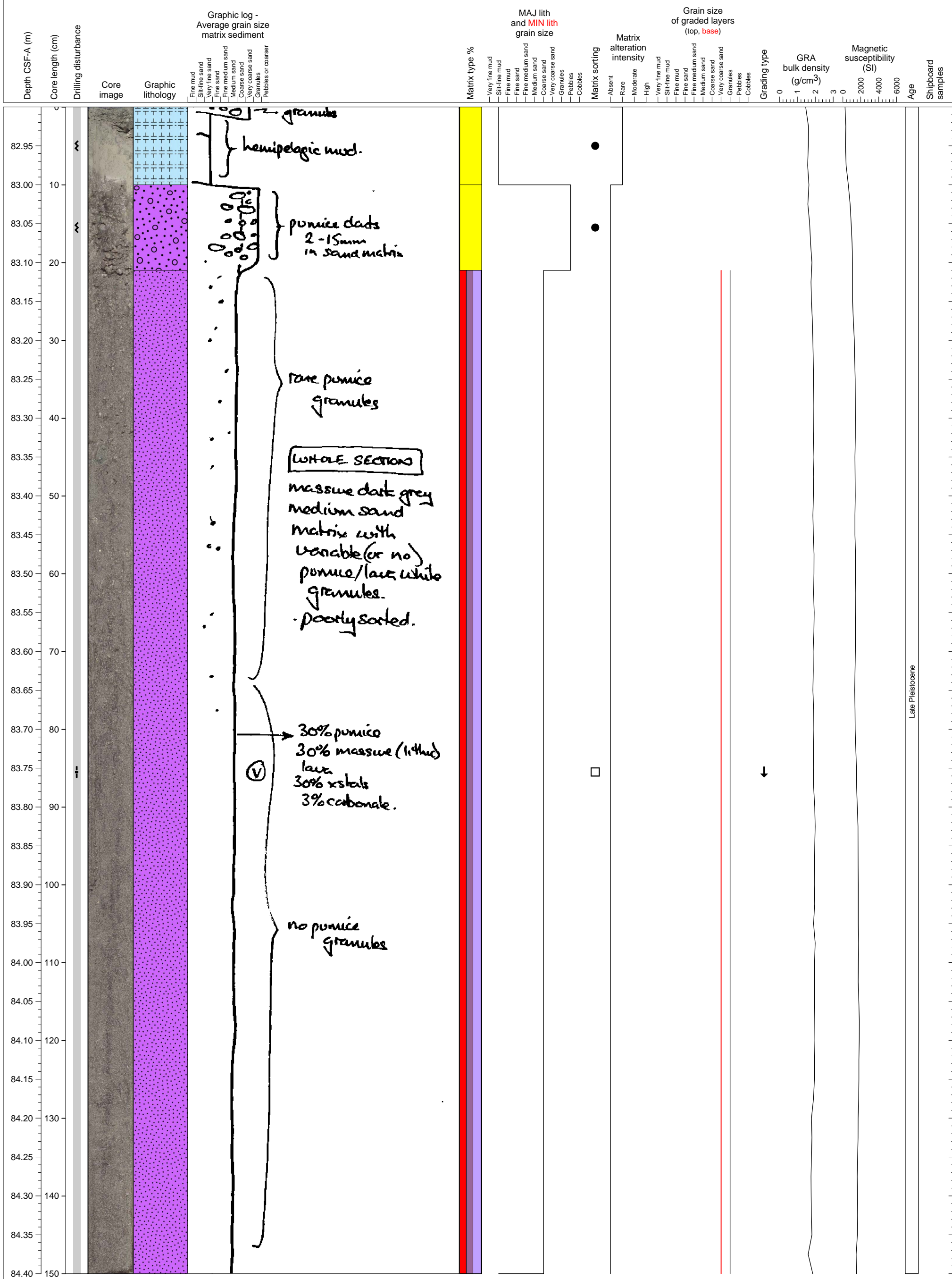
Drilling biscuits of hemipelagic mud and volcanoclastic sand.



Hemipelagic clay and volcanoclastic sand drilling biscuits. PAL from base of section.

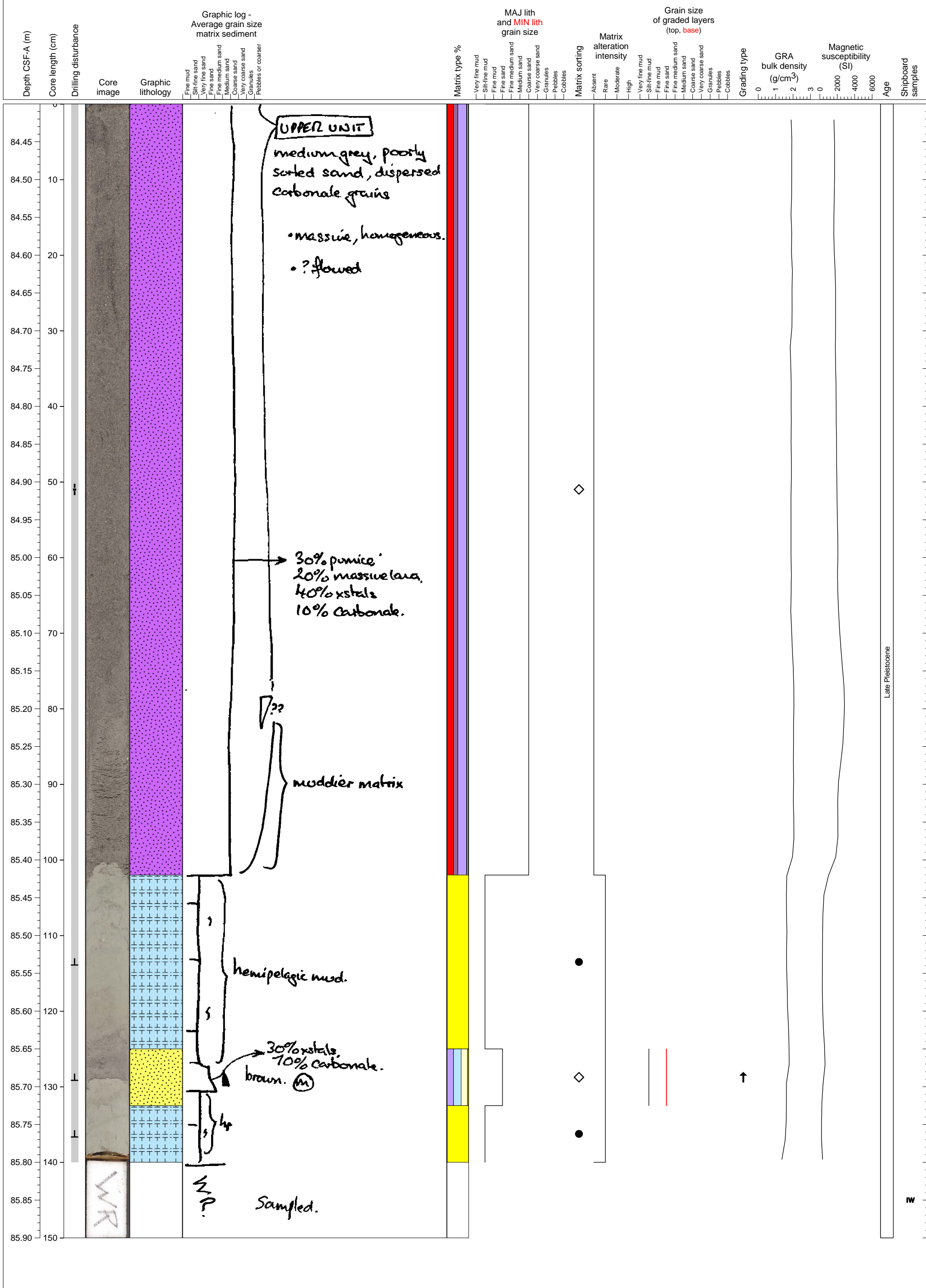


Massive volcanoclastic sand unit. Top is disturbed by drilling.

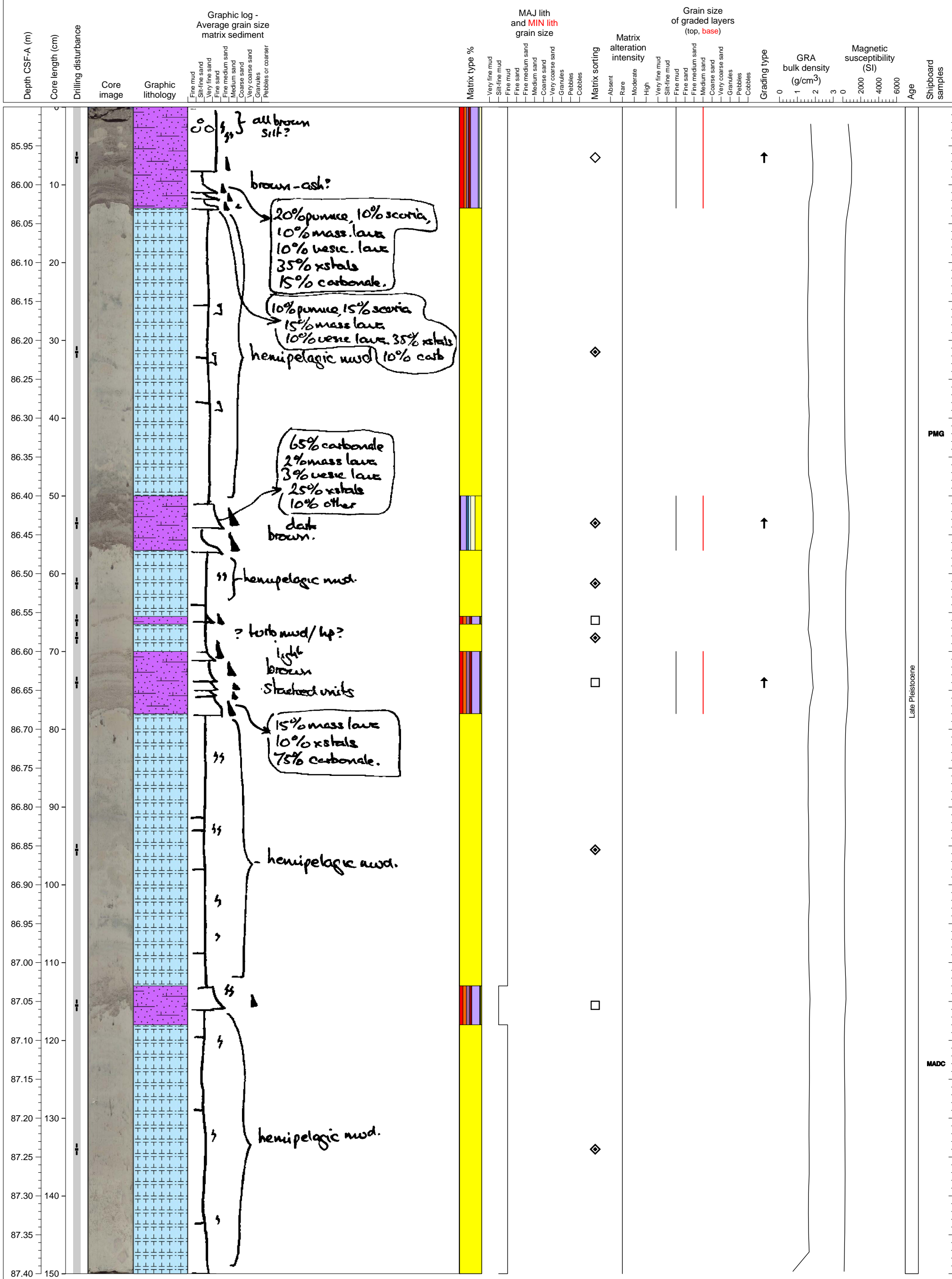


Late Pleistocene

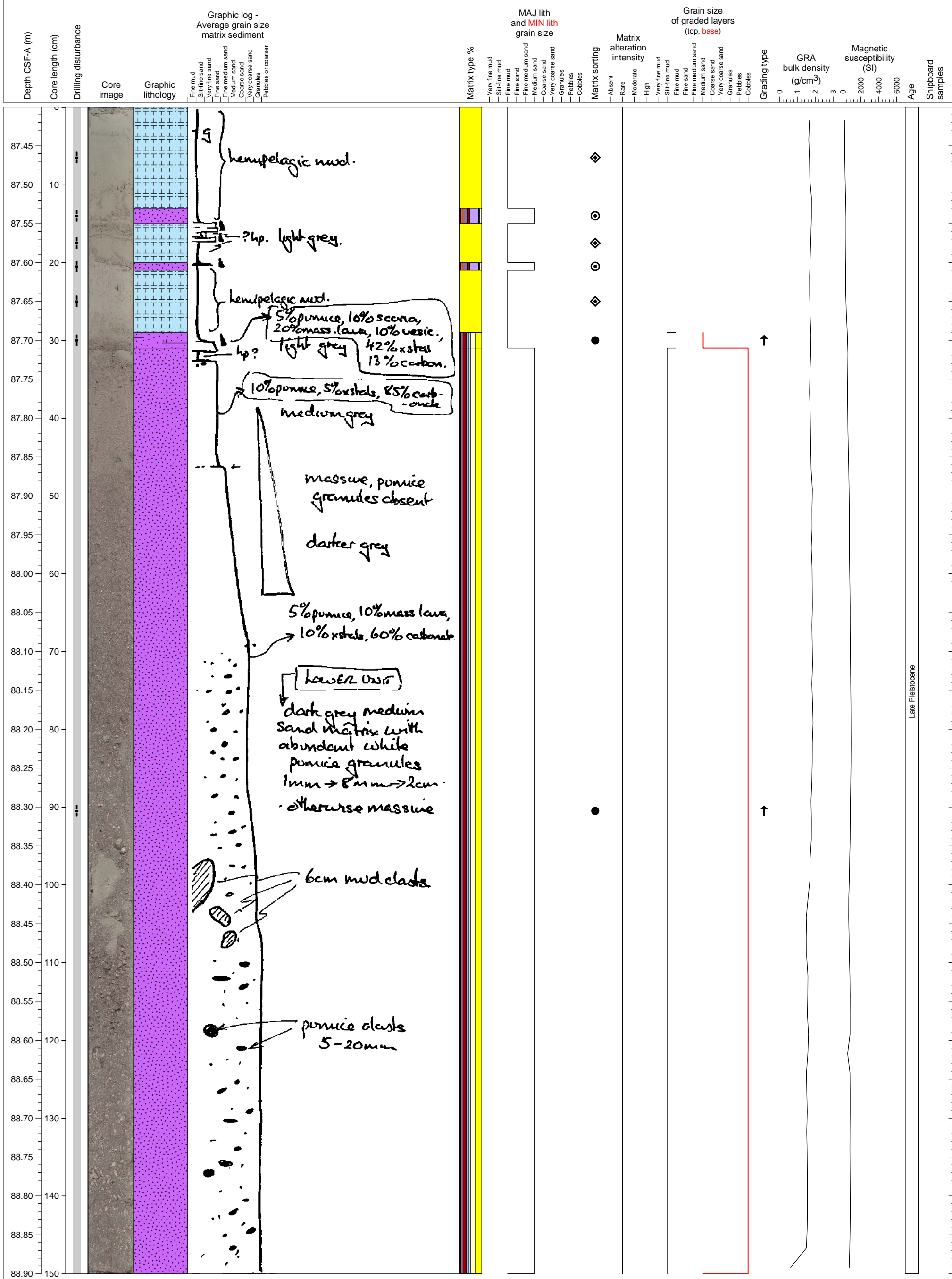
Massive volcanoclastic sandy turbidite overlying hemipelagic clay. Hemipelagic sediment contains calcareous sand layer.



Hemipelagic clay interlayered with volcanoclastic sand units, many displaying normal gradation.

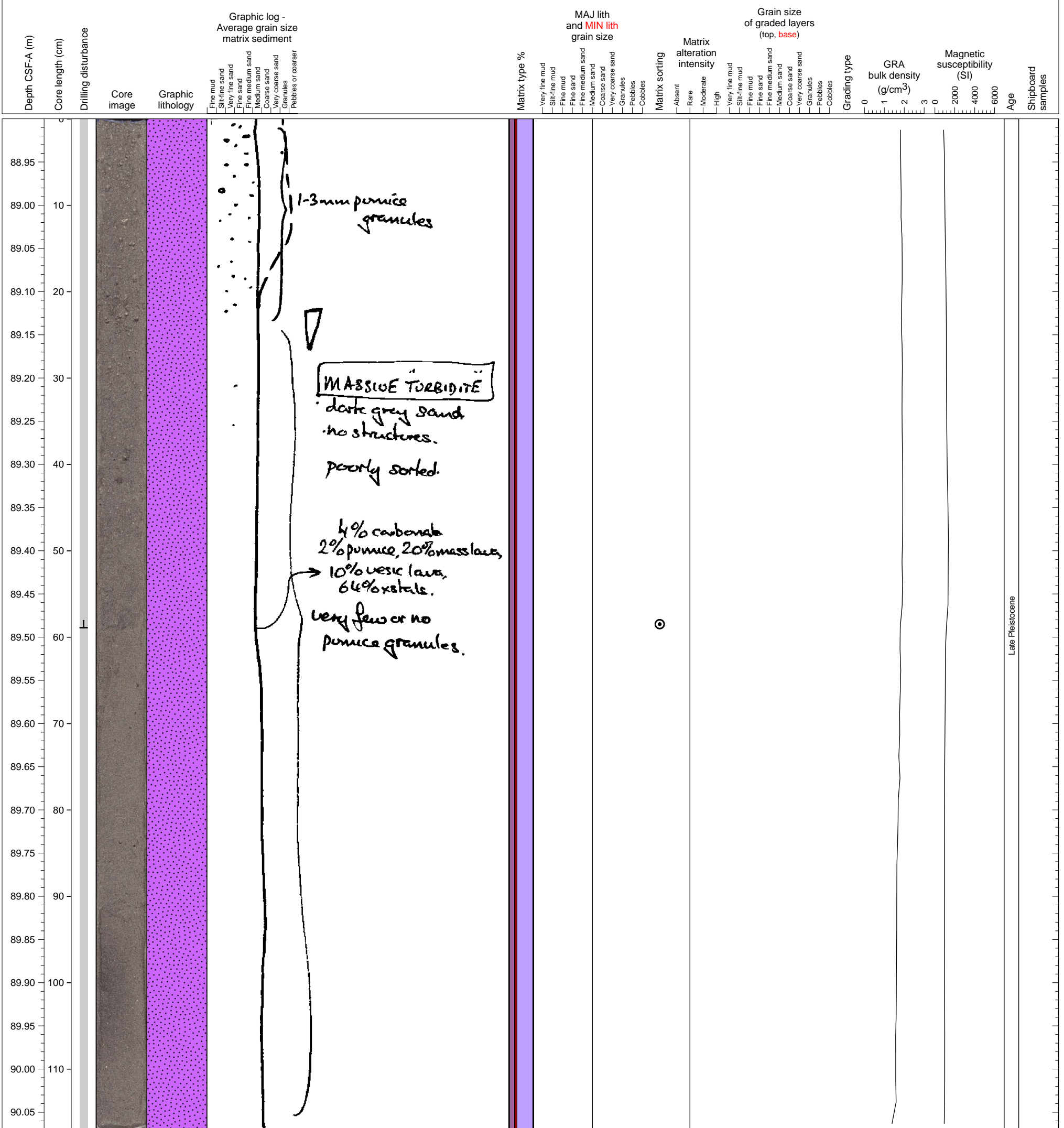


Hemipelagic clay interlayered with volcanoclastic sand units. A large, normally graded volcanoclastic sand unit makes up the base of the section.

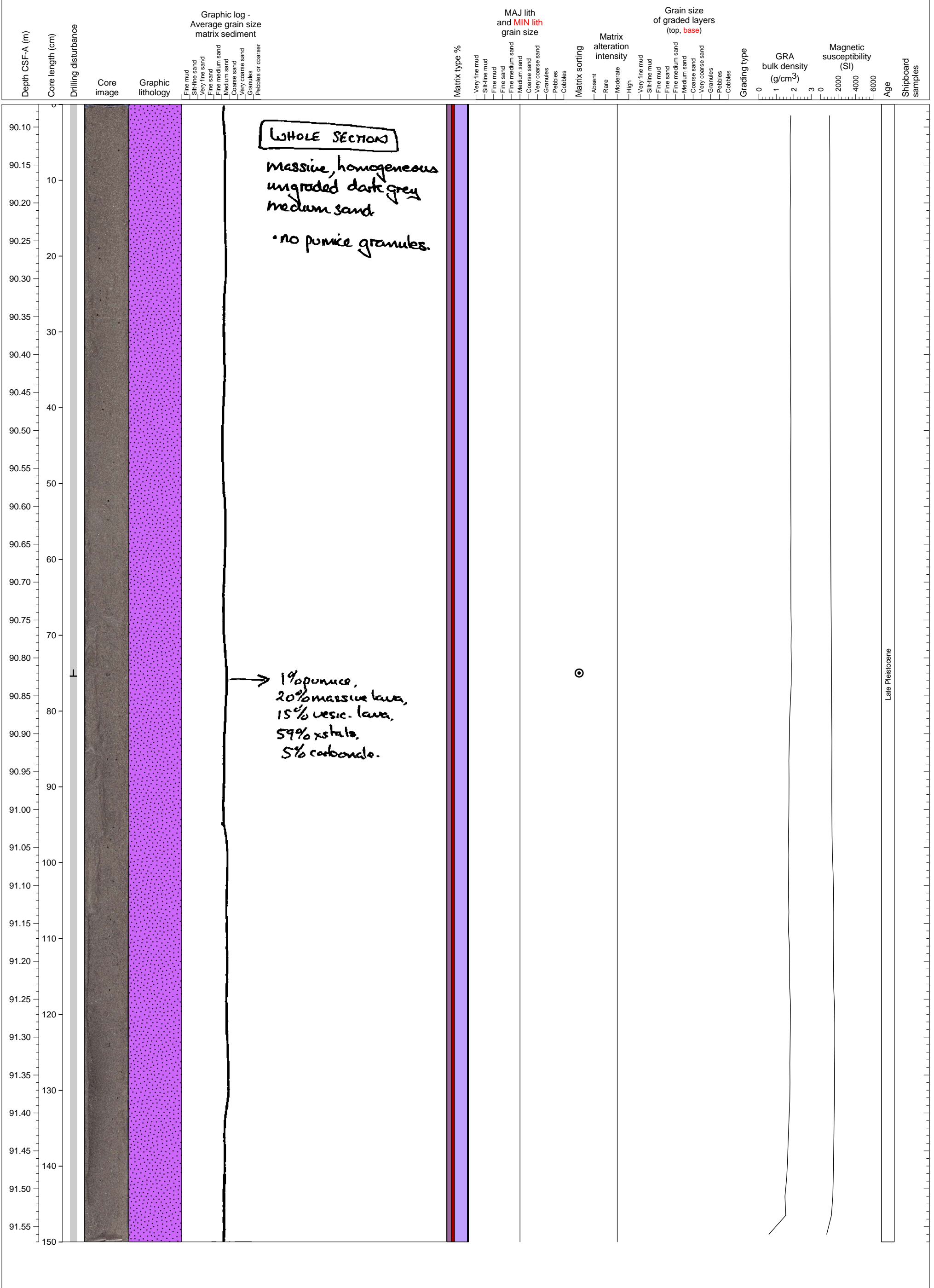


Late Pleistocene

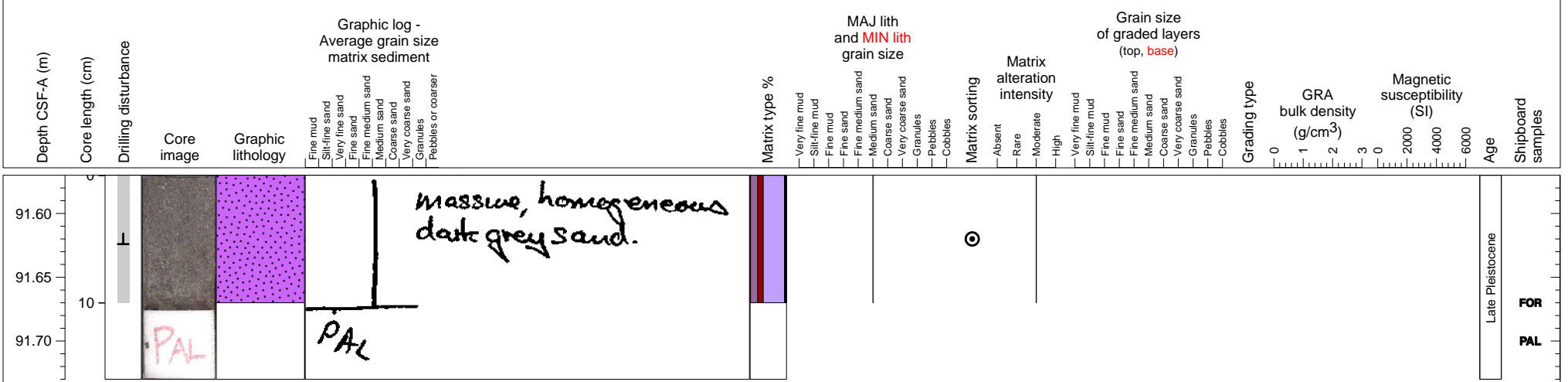
Medium-grained volcanoclastic sand unit.



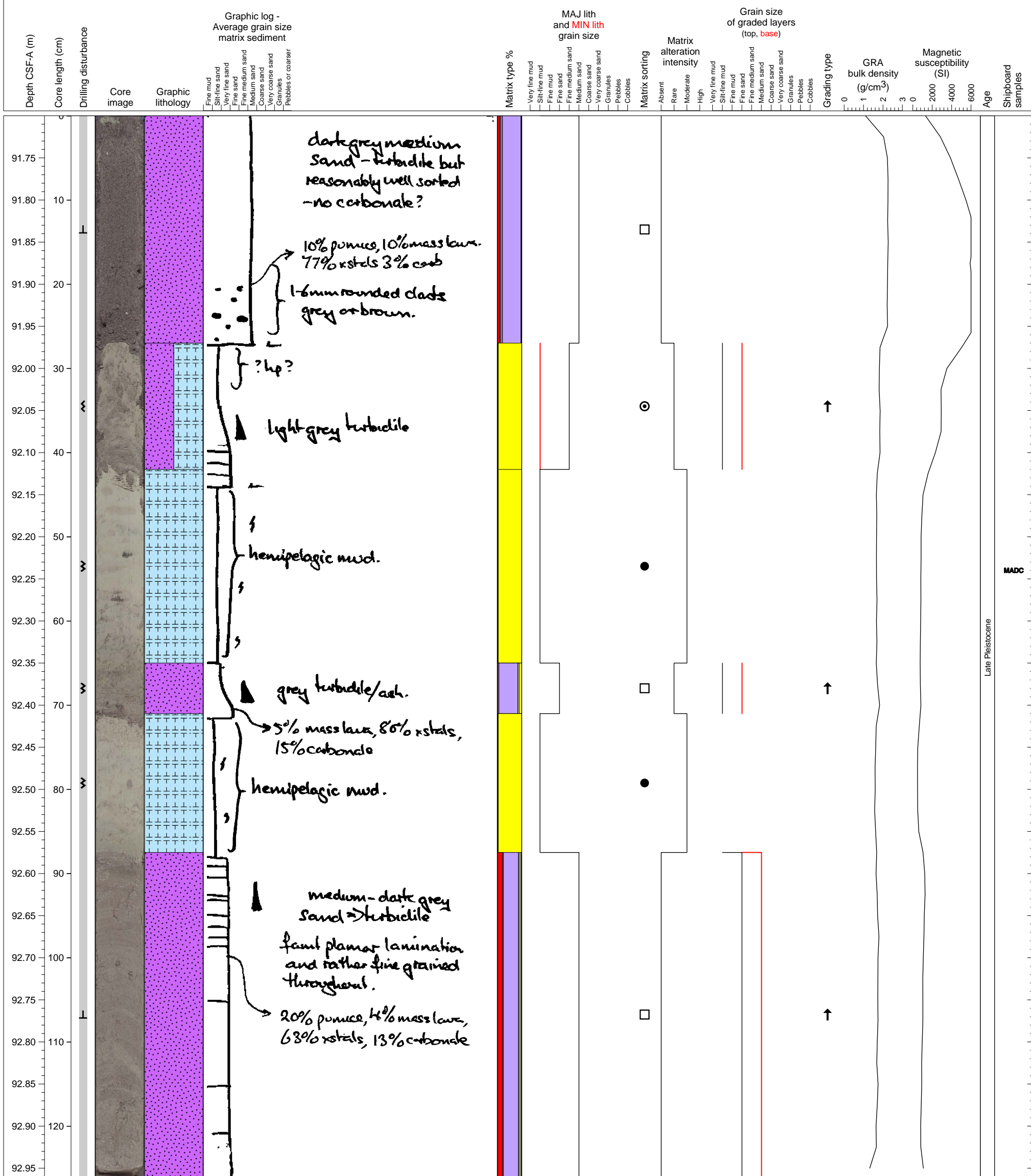
Medium-grained volcanoclastic sand unit.



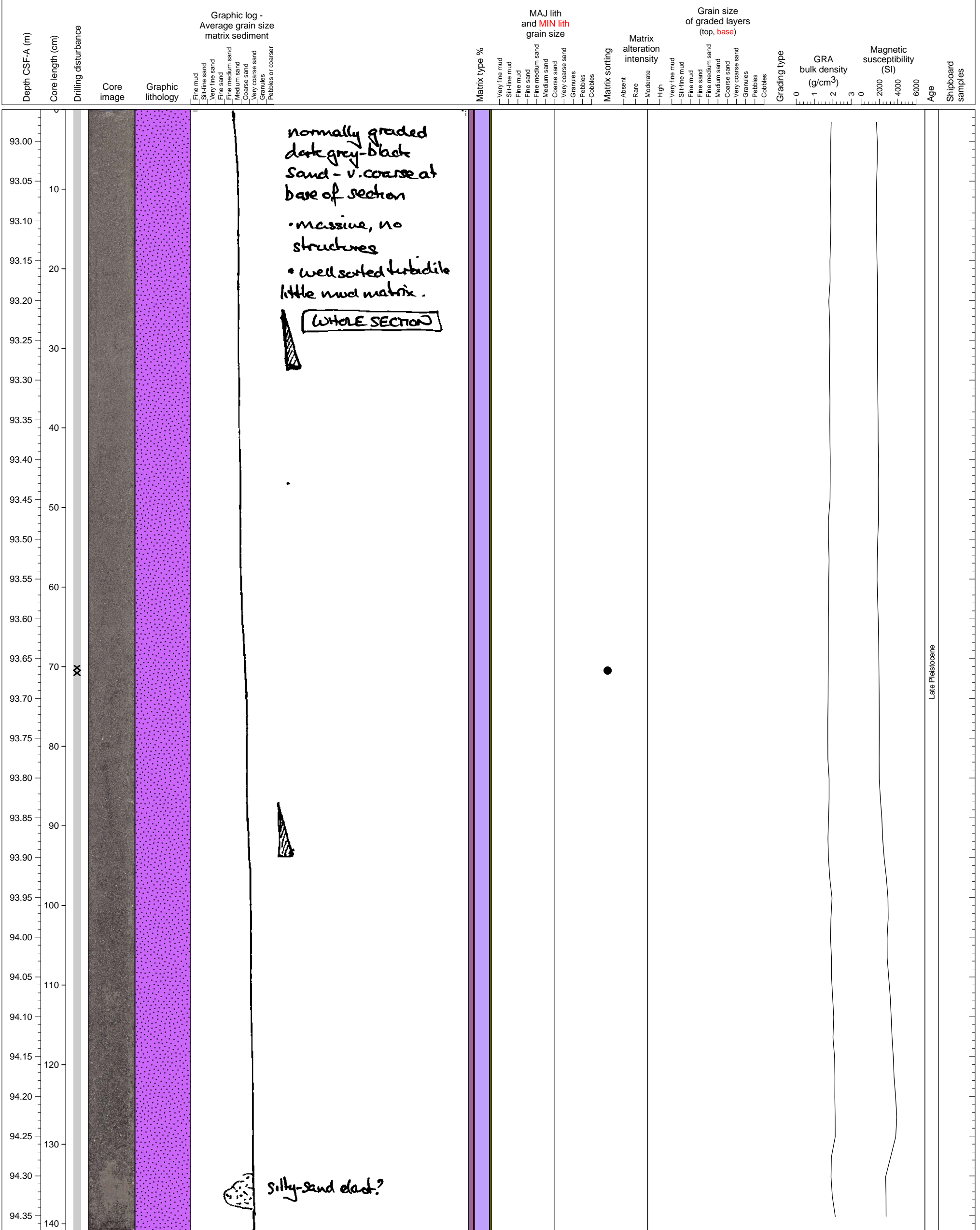
Medium-grained volcanoclastic sand unit. PAL from base.



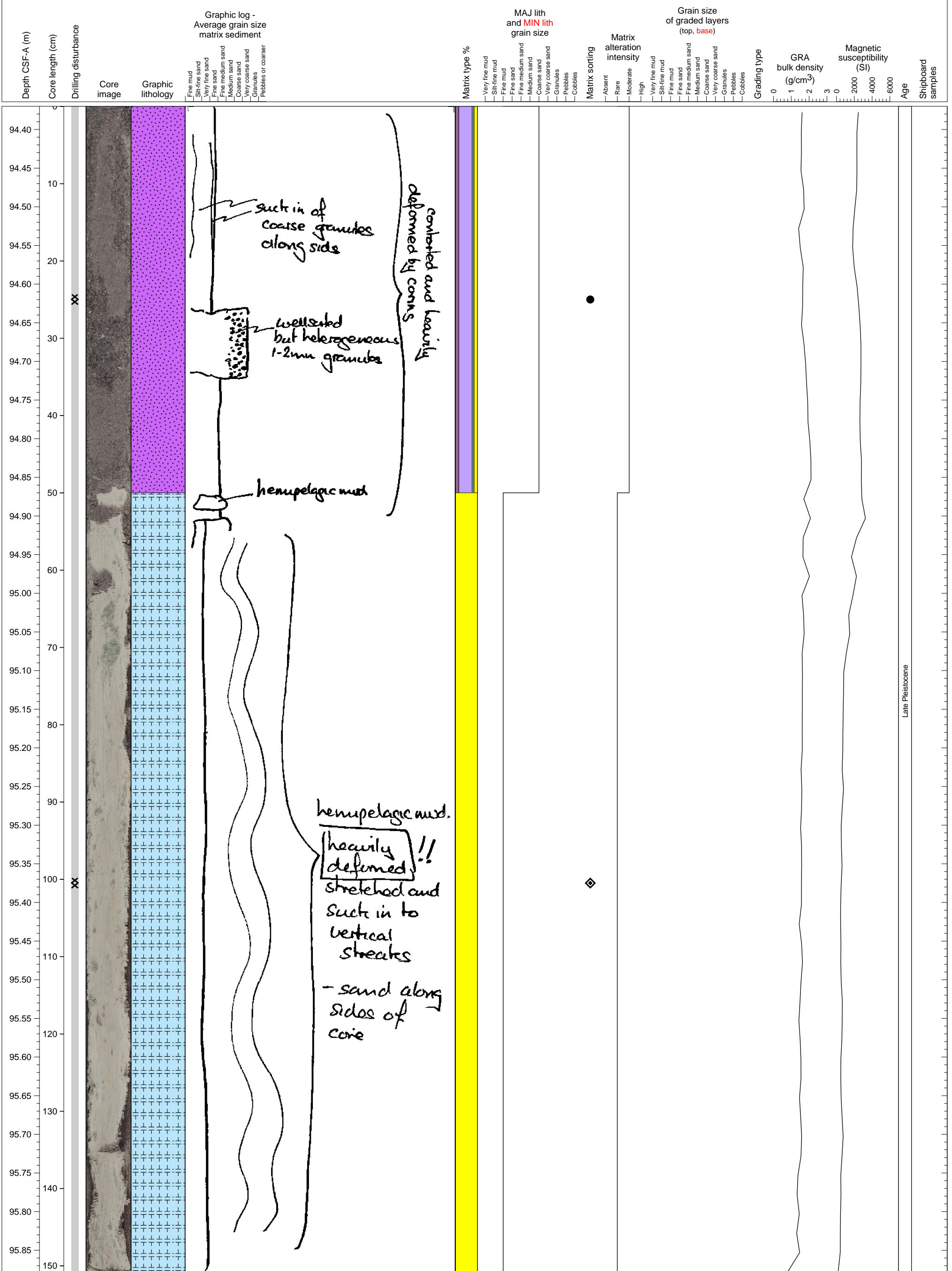
Massive volcanoclastic turbidite unit overlying hemipelagic sediments intercalating tephra layers.



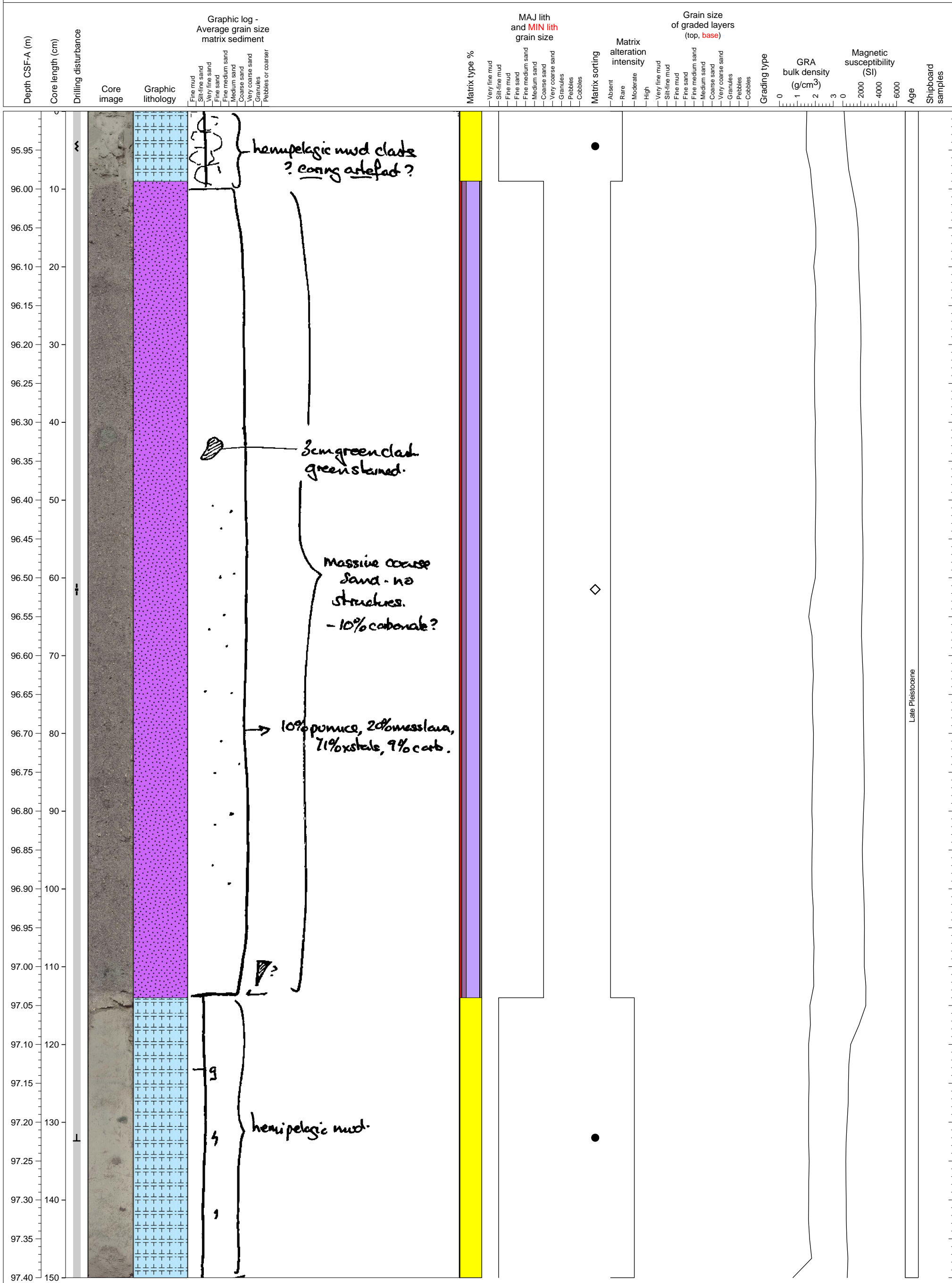
Volcaniclastic sand unit. Massive drilling disturbance (dropped and smashed back into the barrel) makes this unit's properties questionable.



Volcaniclastic sand overlying hemipelagic clay. Huge drilling disturbance makes stratigraphy difficult and highly questionable.

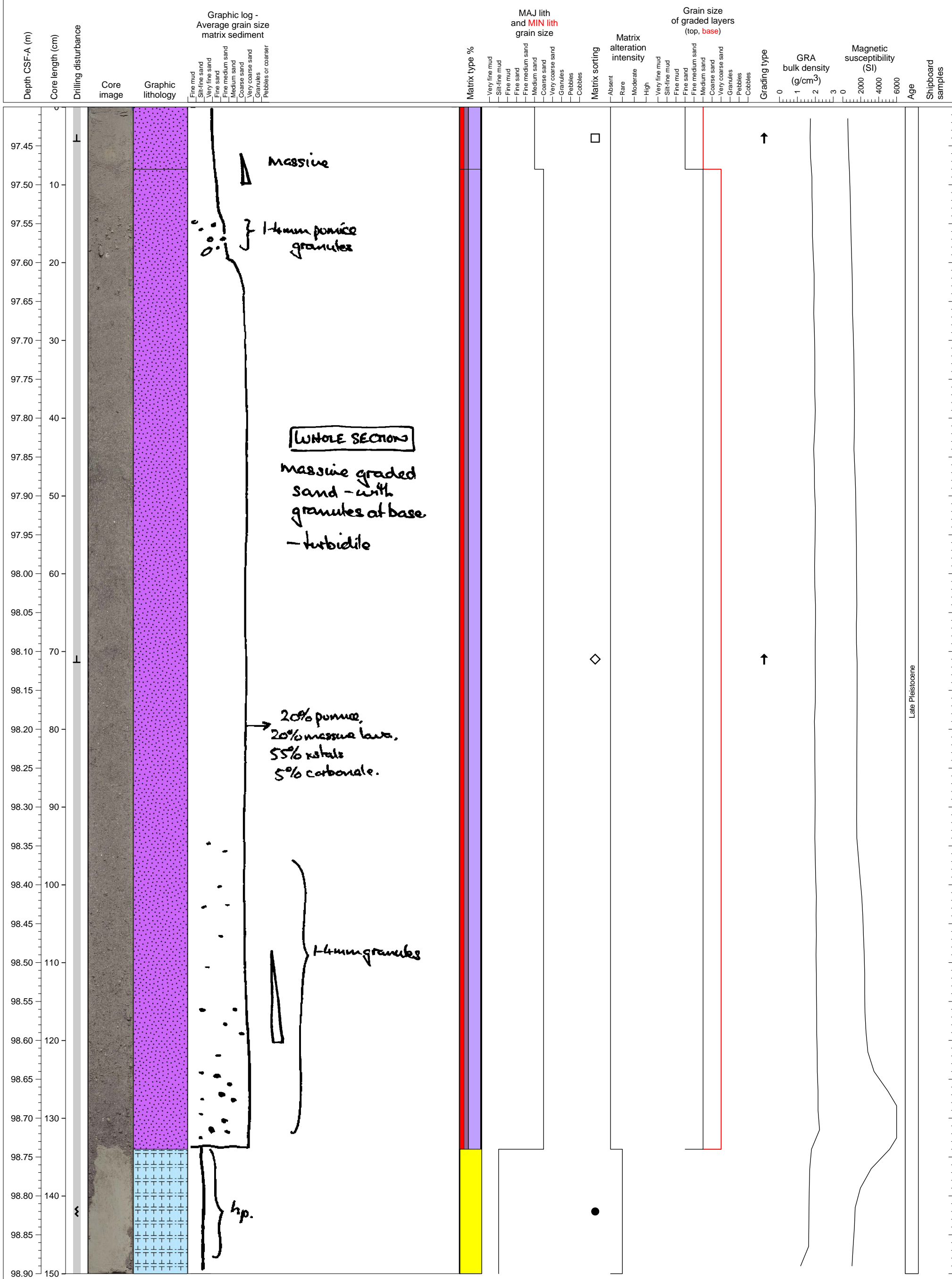


Massive volcanoclastic turbidite and hemipelagic sediment.

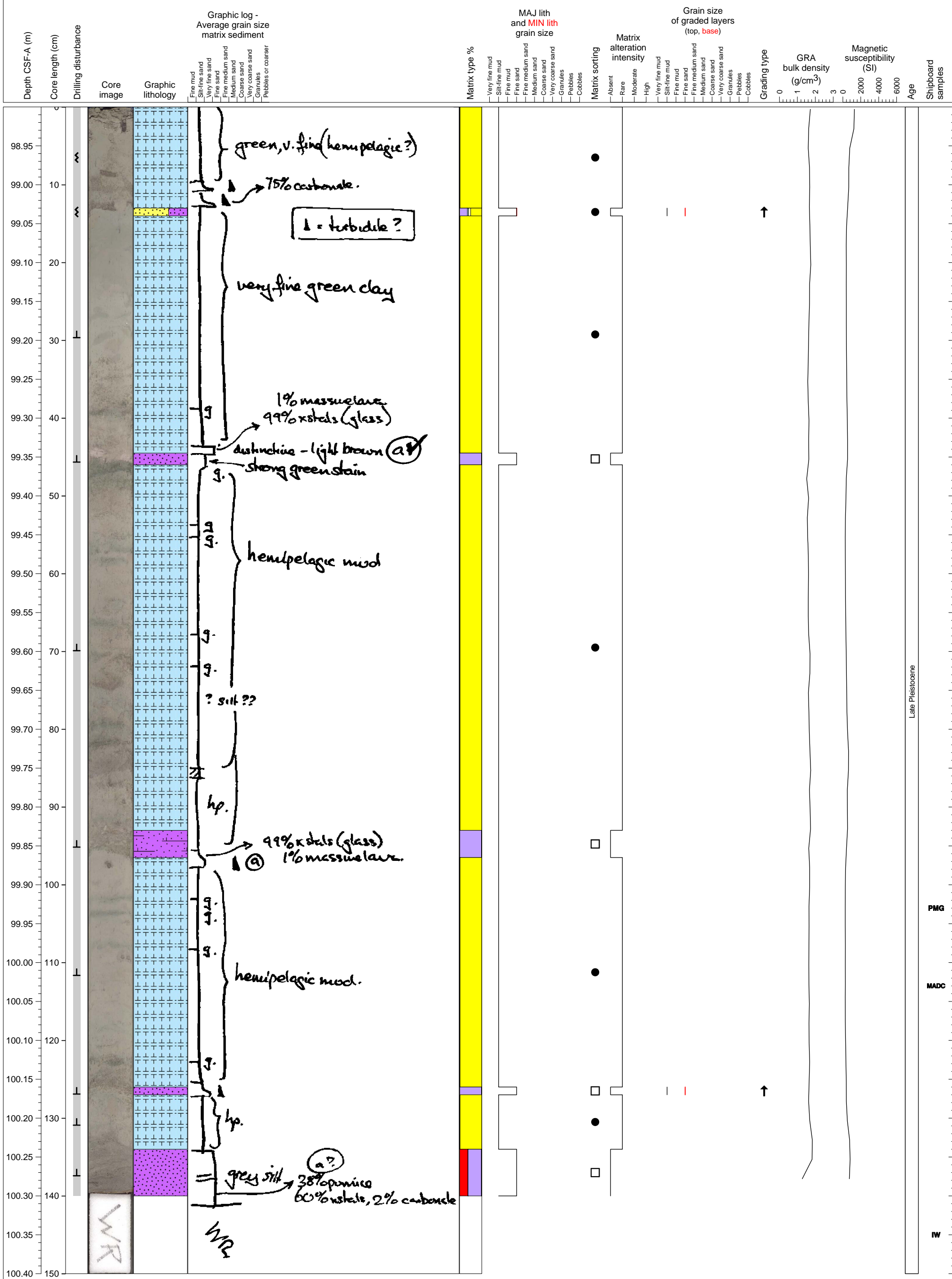


Late Pleistocene

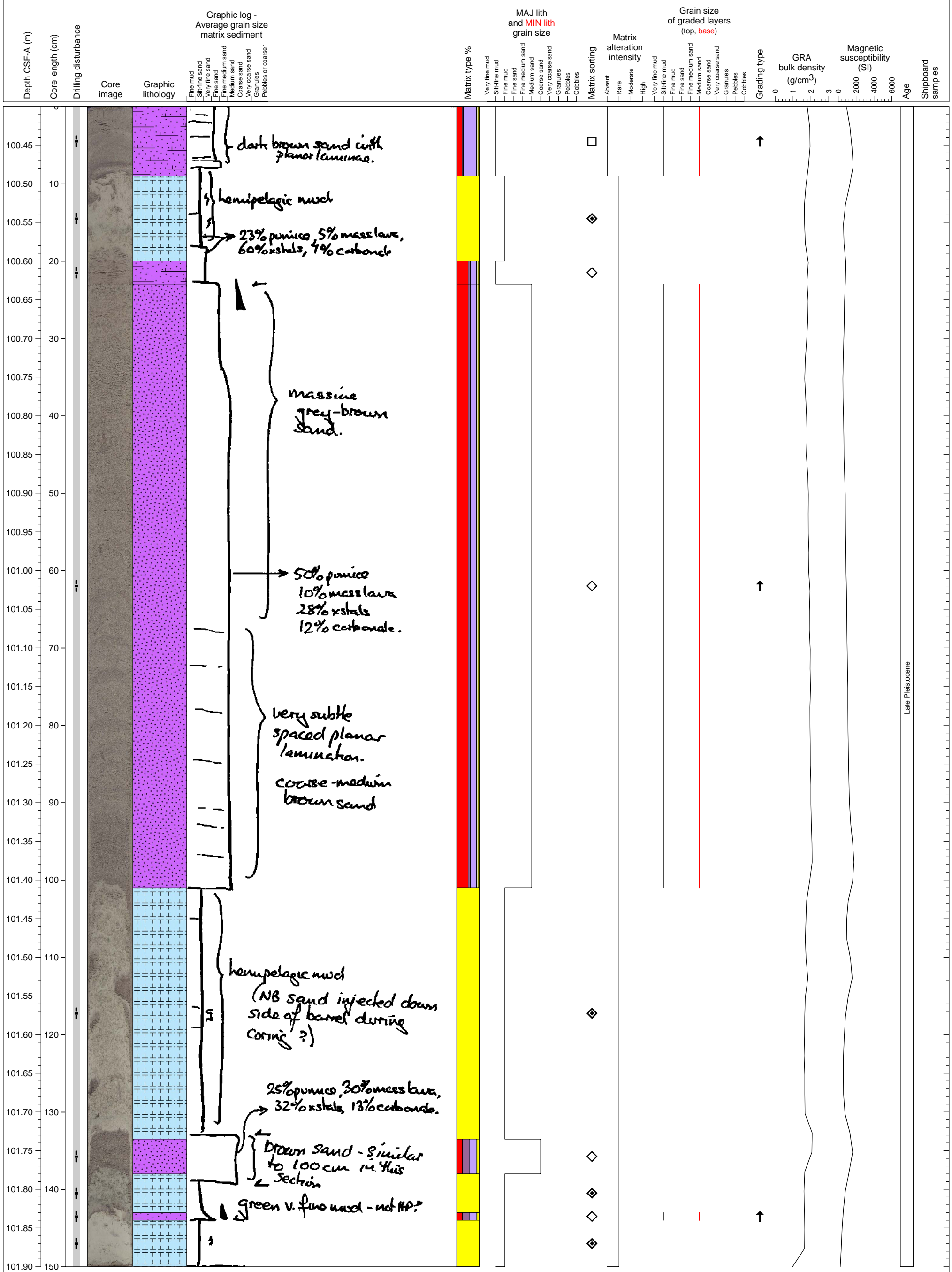
Massive volcanoclastic turbidite with normal grading underlying hemipelagic sediment.



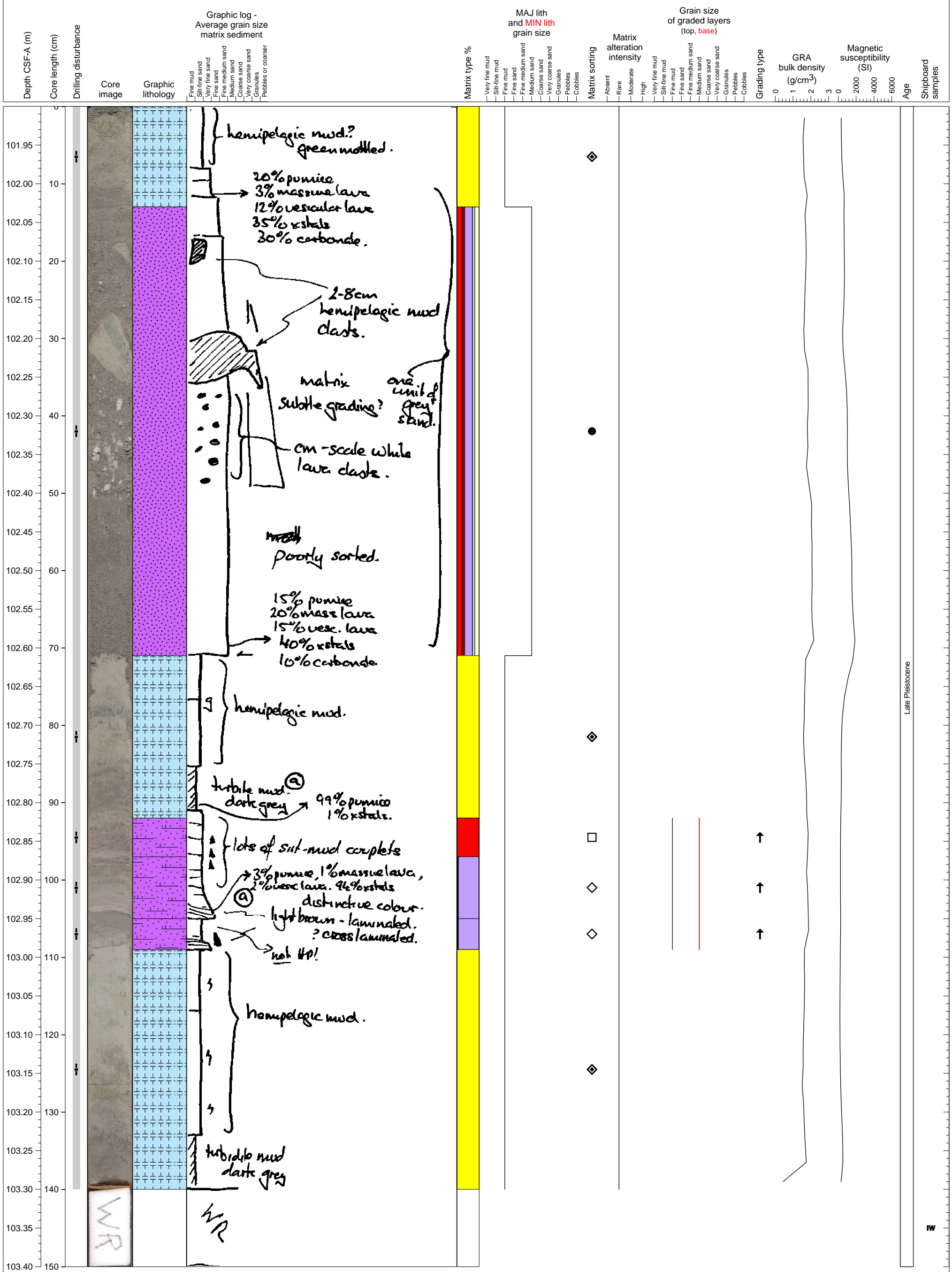
Hemipelagic clay interlayering with at least four tephra layers. Pinkish tephra will be a marker.



Hemipelagic clay interlayered with volcanoclastic sand deposits, many of which display normal grading.



Hemipelagic clay interlayered with volcanoclastic units, many of which display normal gradation.

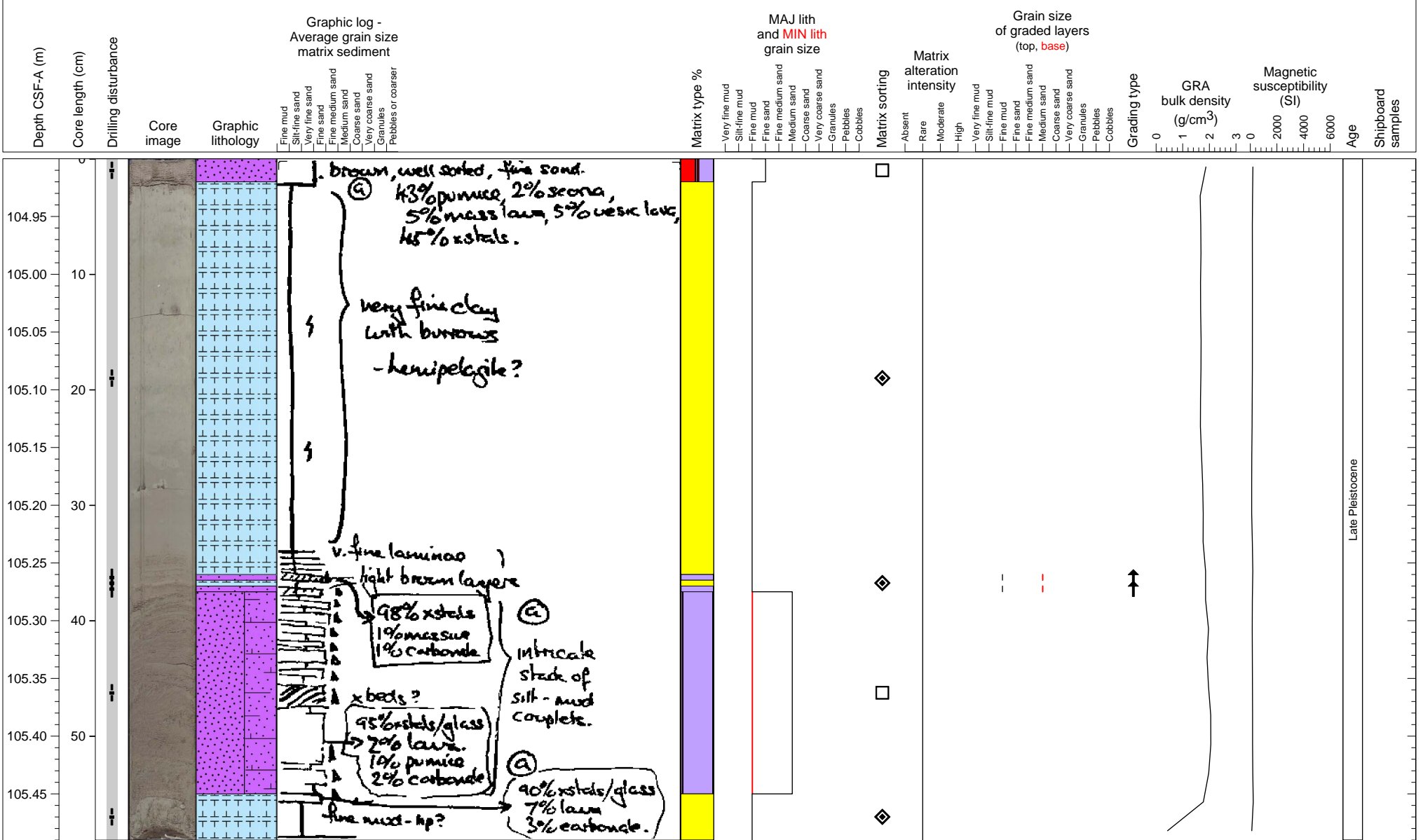


Hemipelagic clay interlayered with volcanoclastic sand units, many of which exhibit normal gradation.

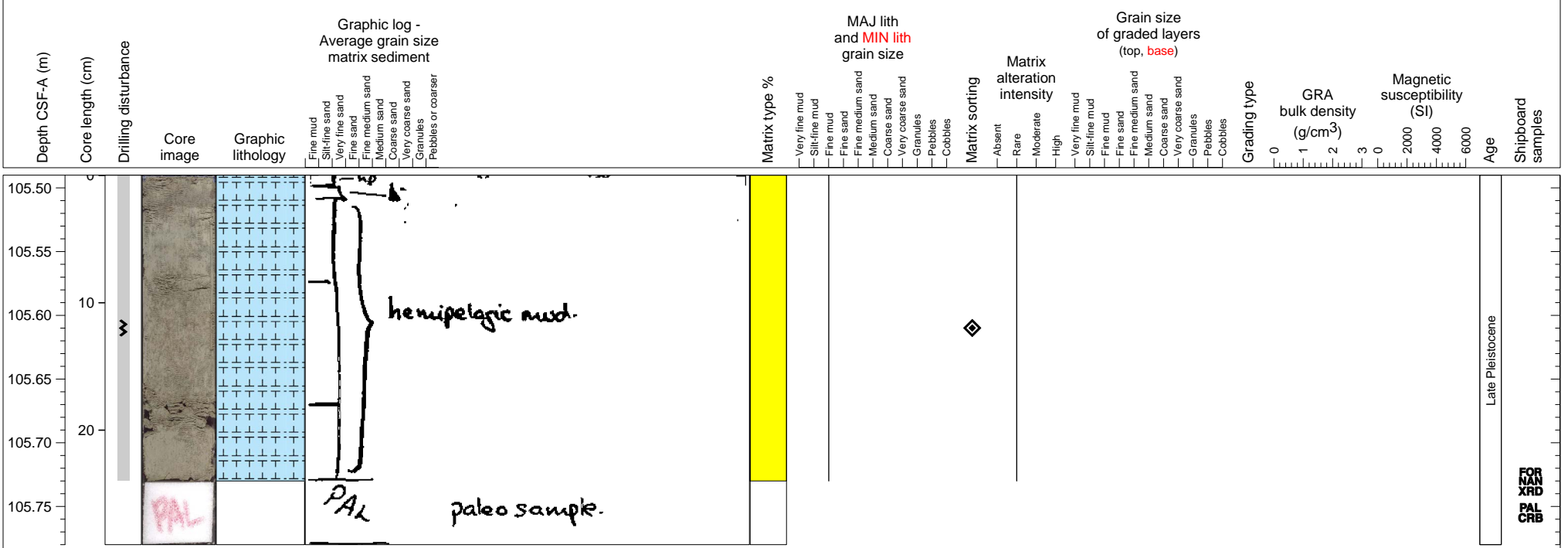


Late Pleistocene

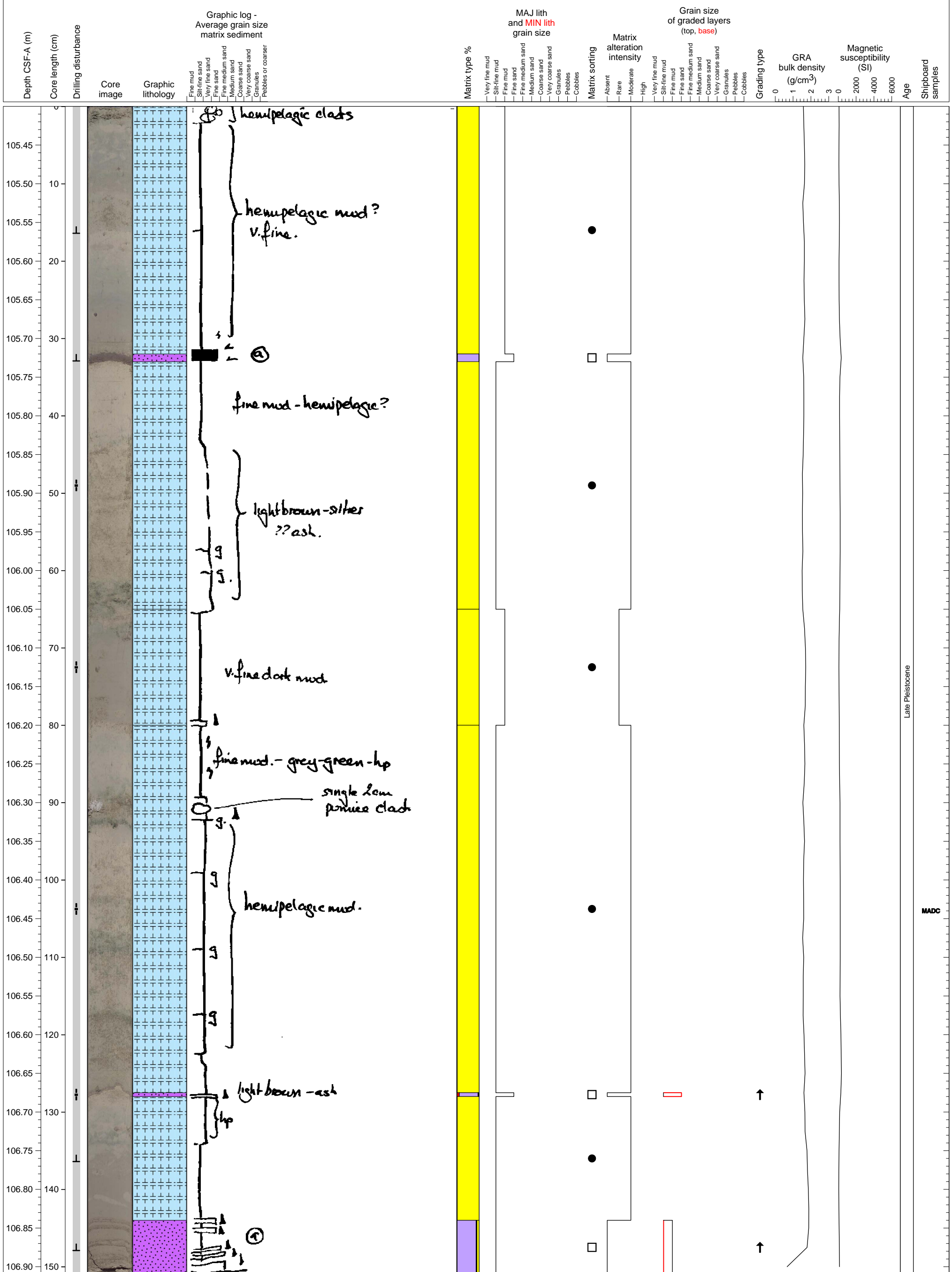
Hemipelagic clay interlayered with abundant volcanoclastic sands and ashes. Several of the sand units exhibit normal grading.



Hemipelagic clay unit. PAL sample from base of section.



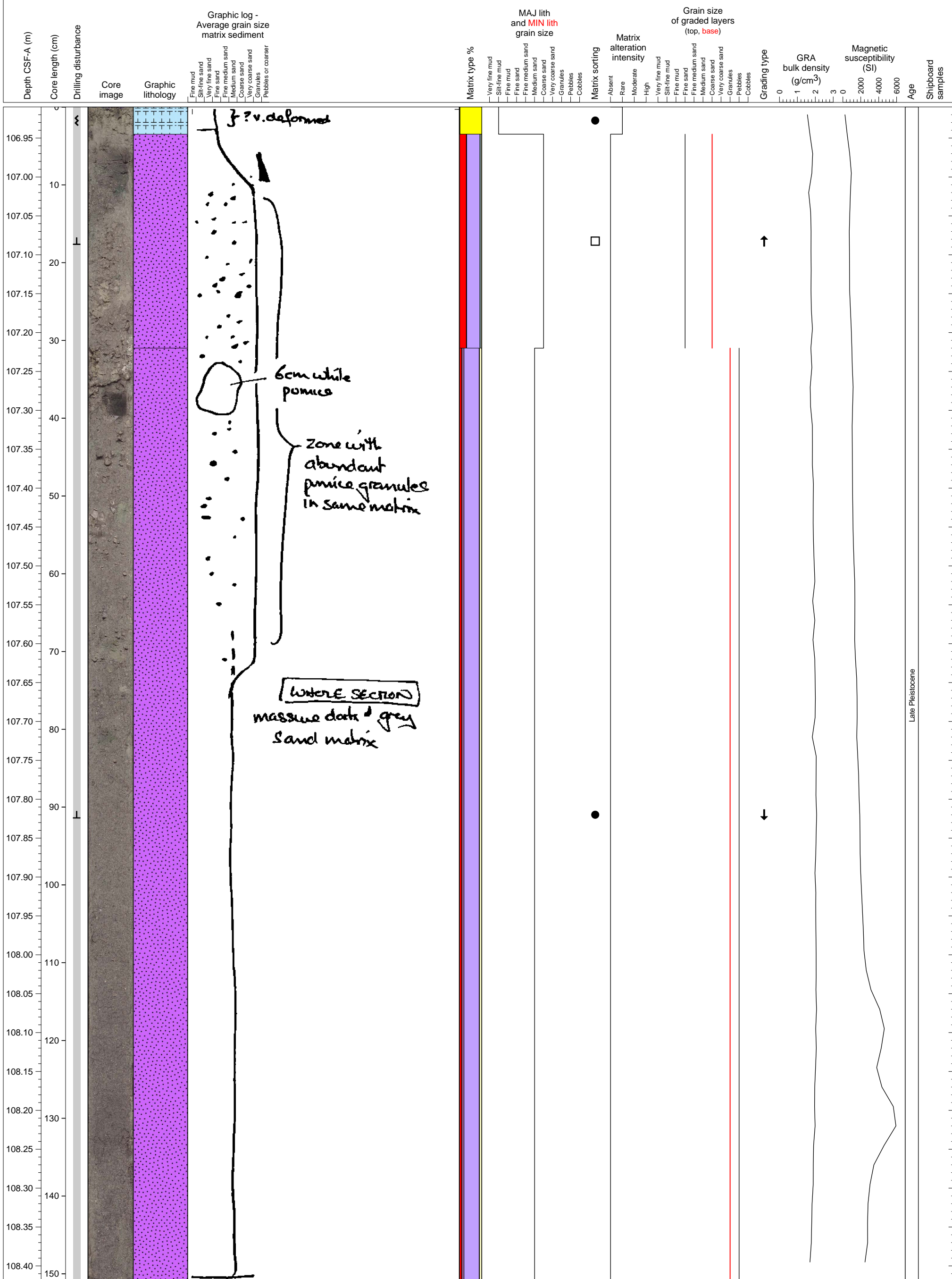
Hemipelagic clay intercalating at least three tephra layers.



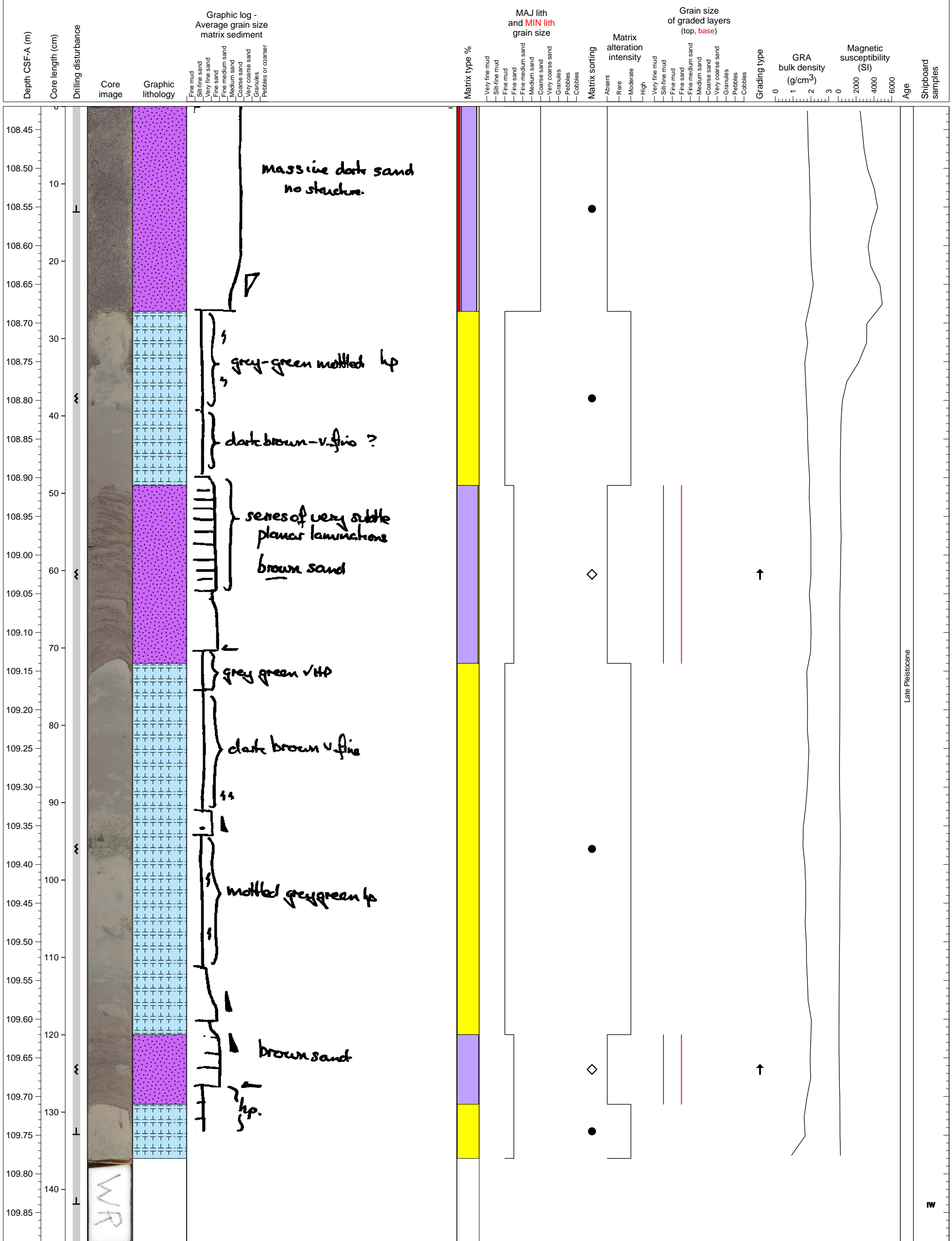
Late Pleistocene

MADC

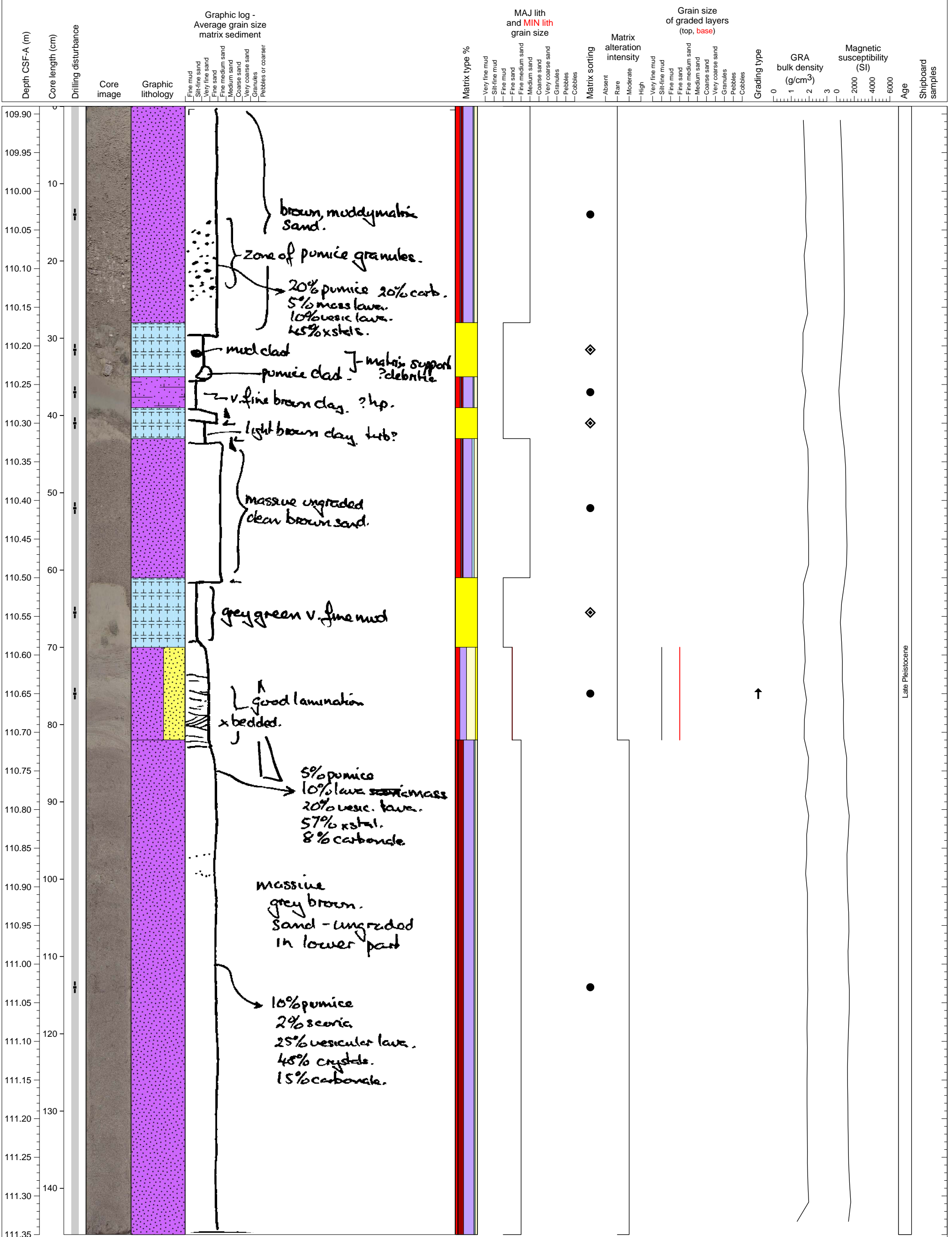
Massive volcanoclastic turbidite with reverse and normal grading. Pumice clast concentration in the upper part and then fining at the top.



Bottom of volcanoclastic turbidite and hemipelagic clay interlayering with multiple tephra layers with cyclic normal gradation.

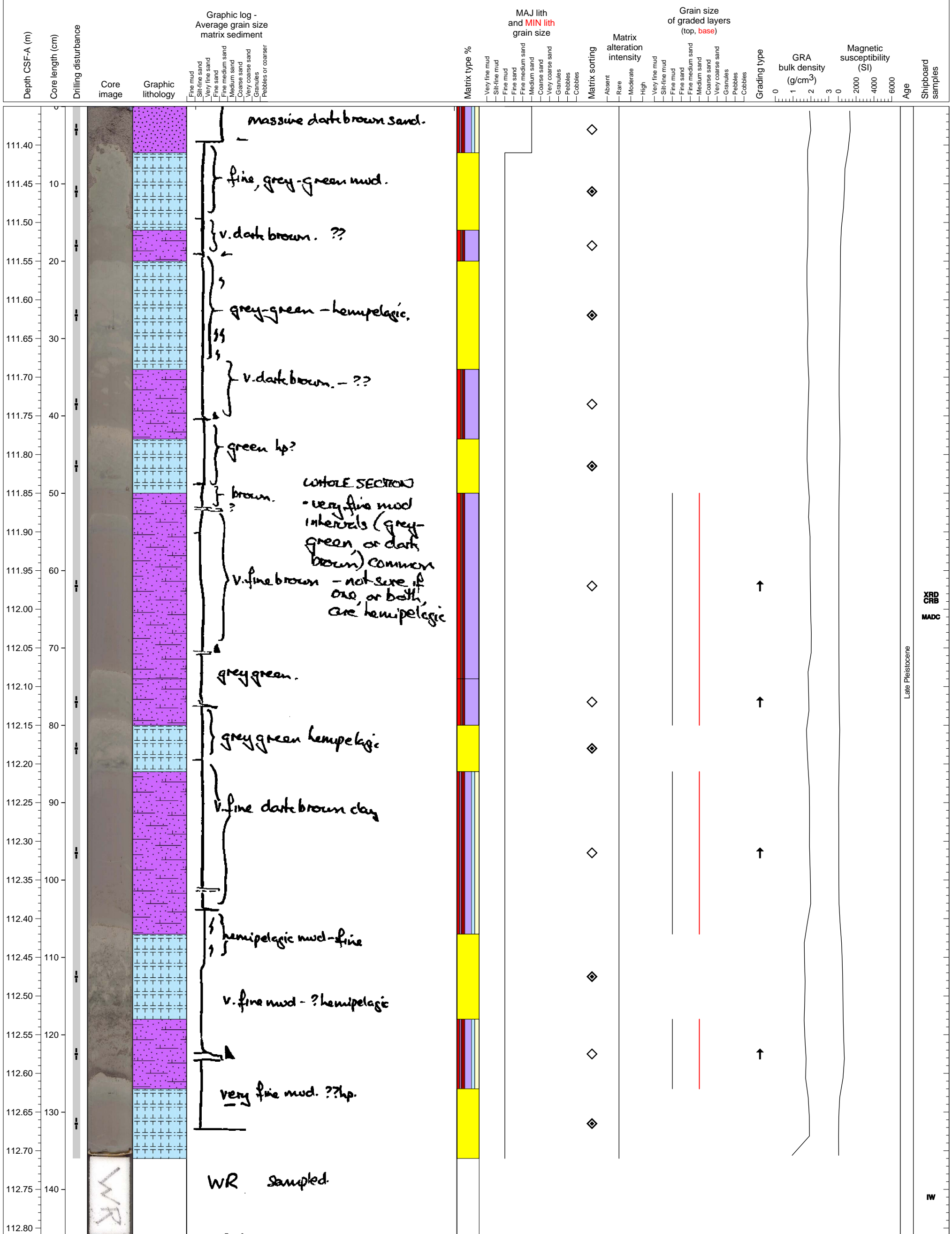


Hemipelagic clay interlayered with volcanoclastic sand and mud deposits.



Late Pleistocene

Hemipelagic clay interlayered with abundant volcanoclastic units, many of which display normal gradation.

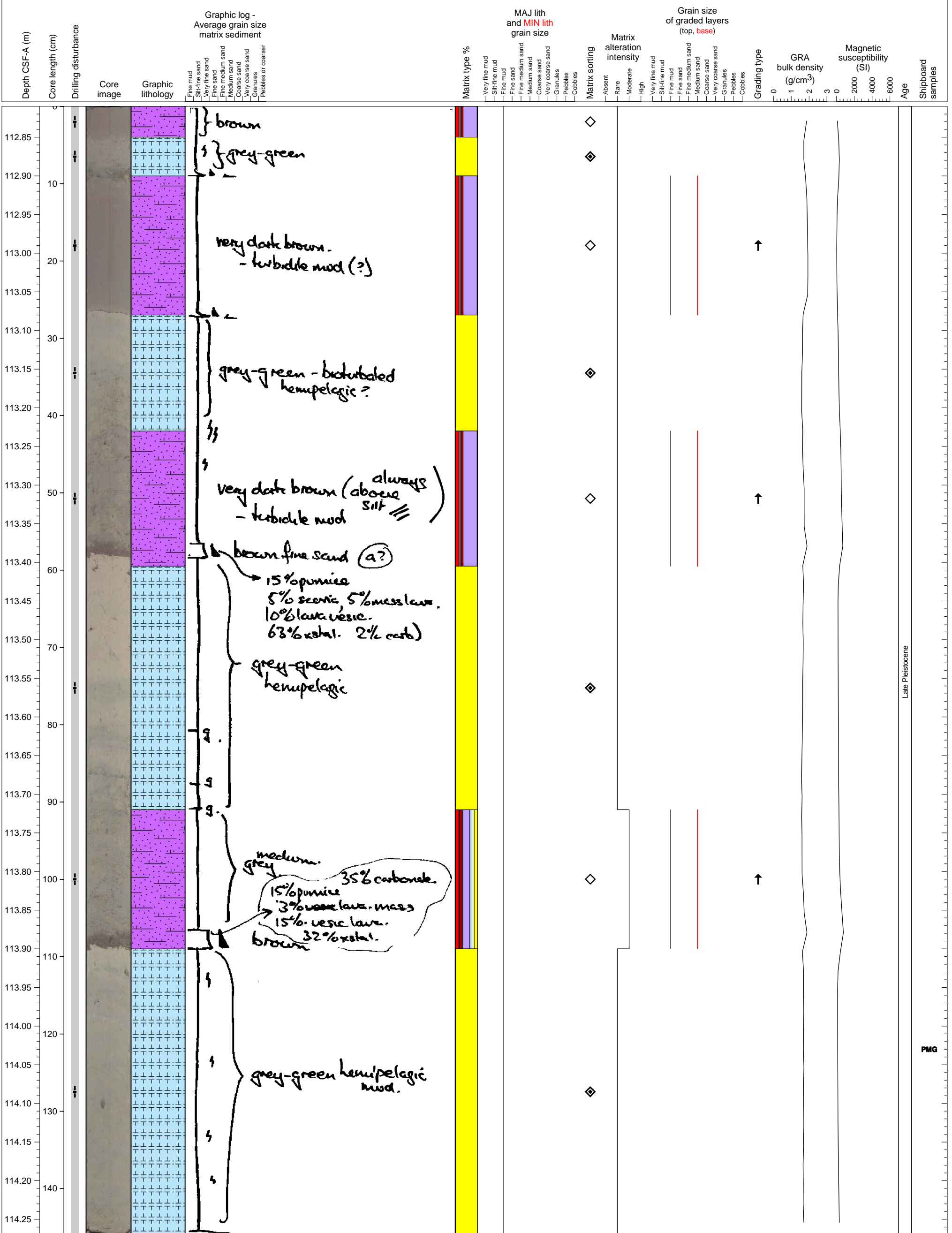


XRD CRB
MADC

Late Pleistocene

W

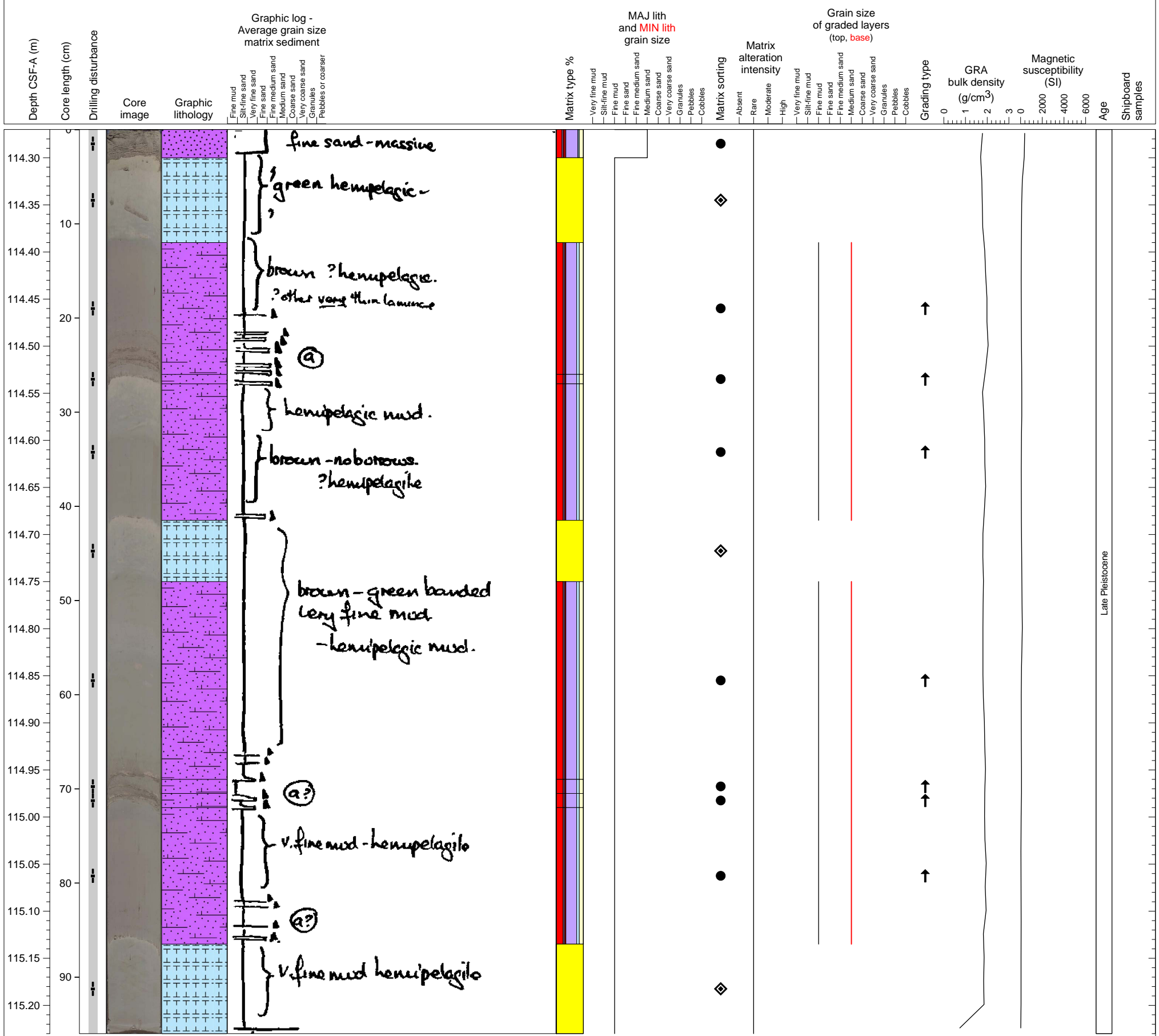
Hemipelagic clay interlayered with volcanoclastic units, many of which display normal grading.



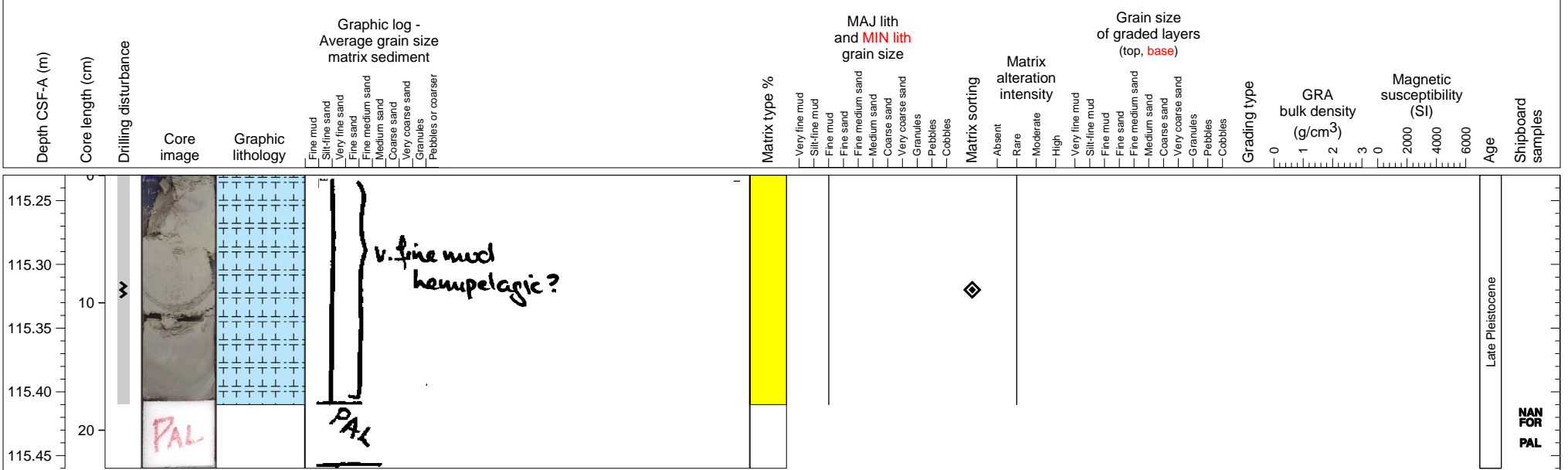
Late Pleistocene

PMG

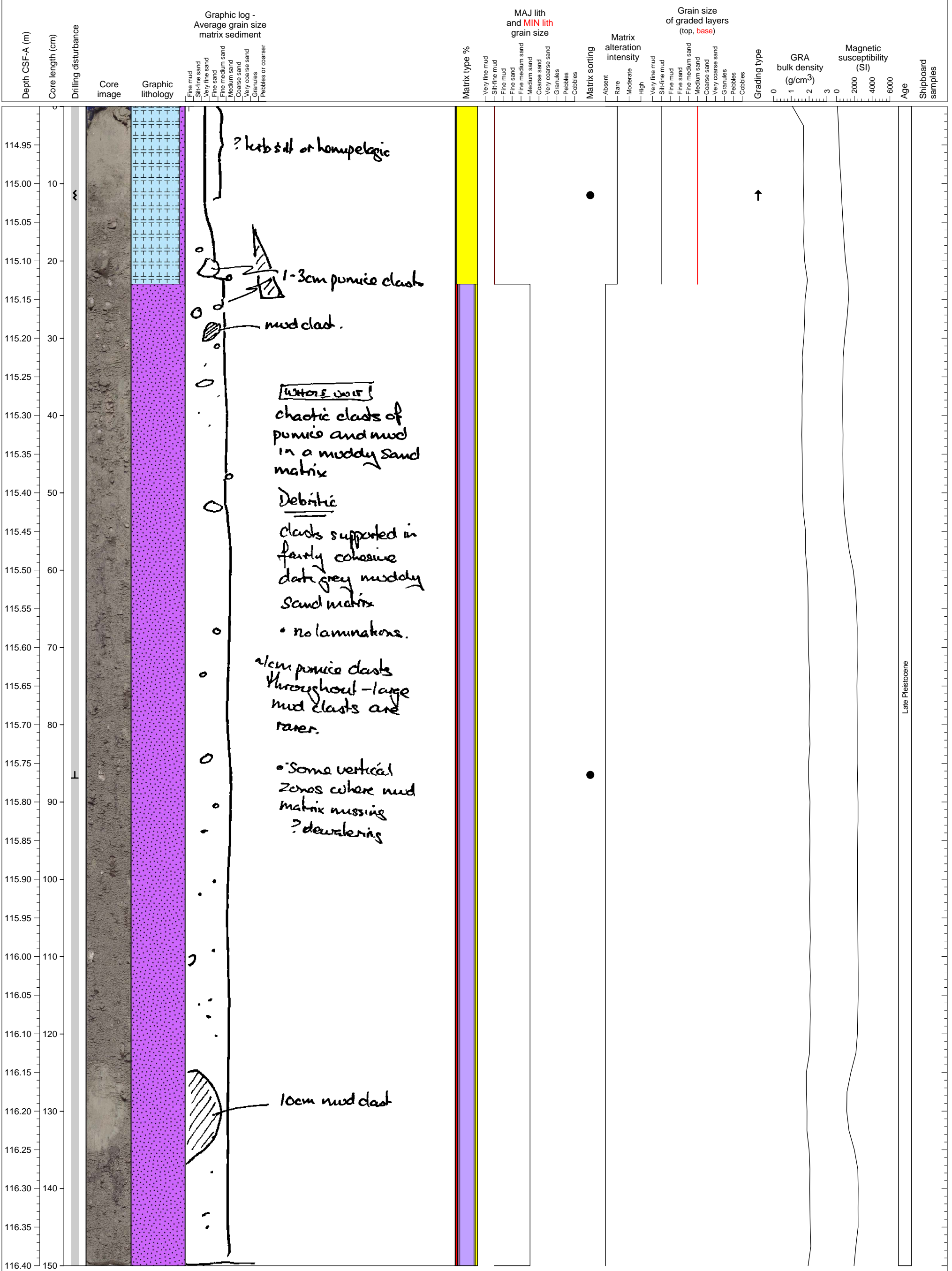
Hemipelagic clay interlayered with volcanoclastic units, many of which display normal gradation.



Hemipelagic clay unit. PAL sample from base.

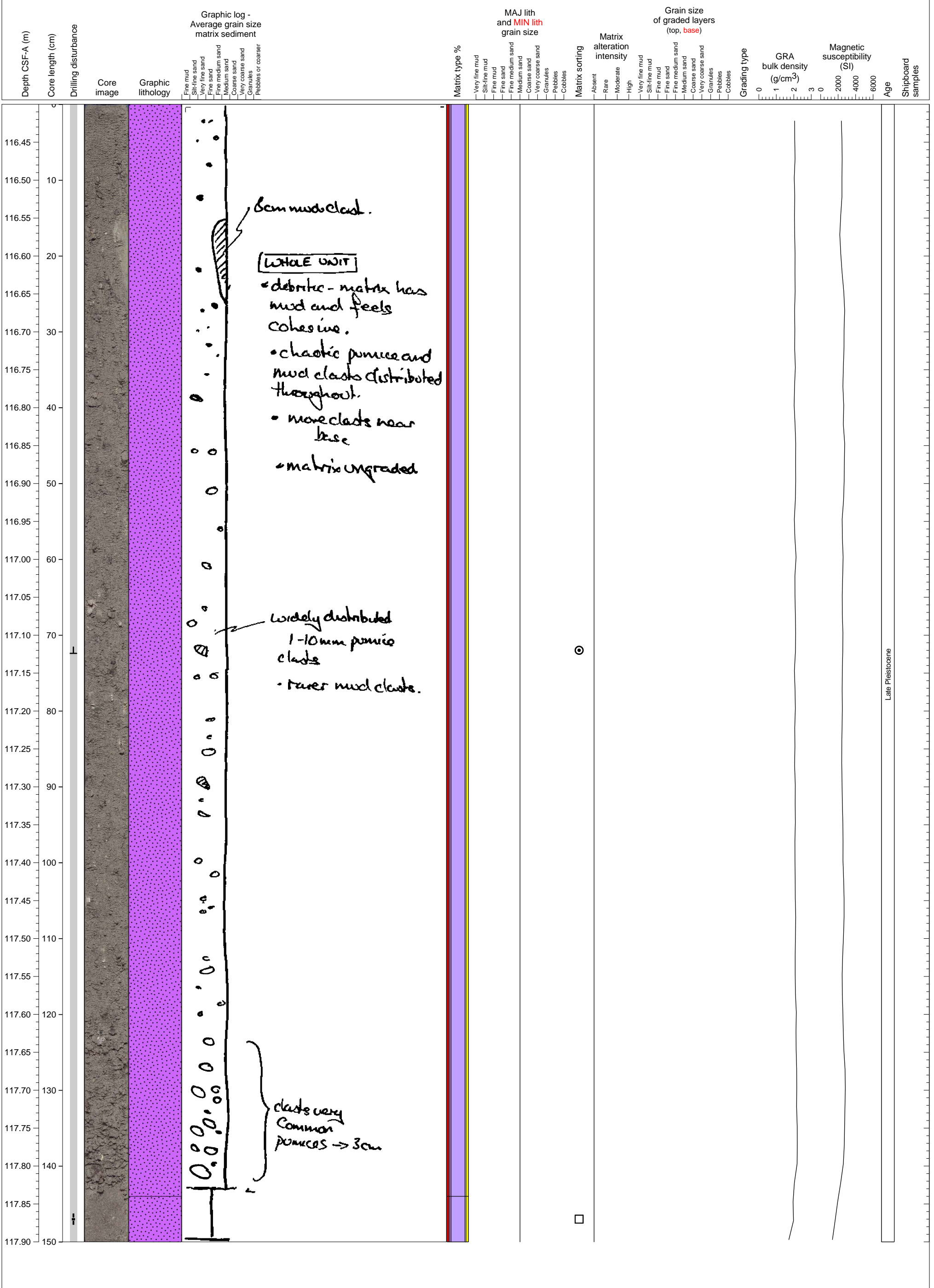


Massive pumiceous turbidite containing pumice and hemipelagic clay clasts.

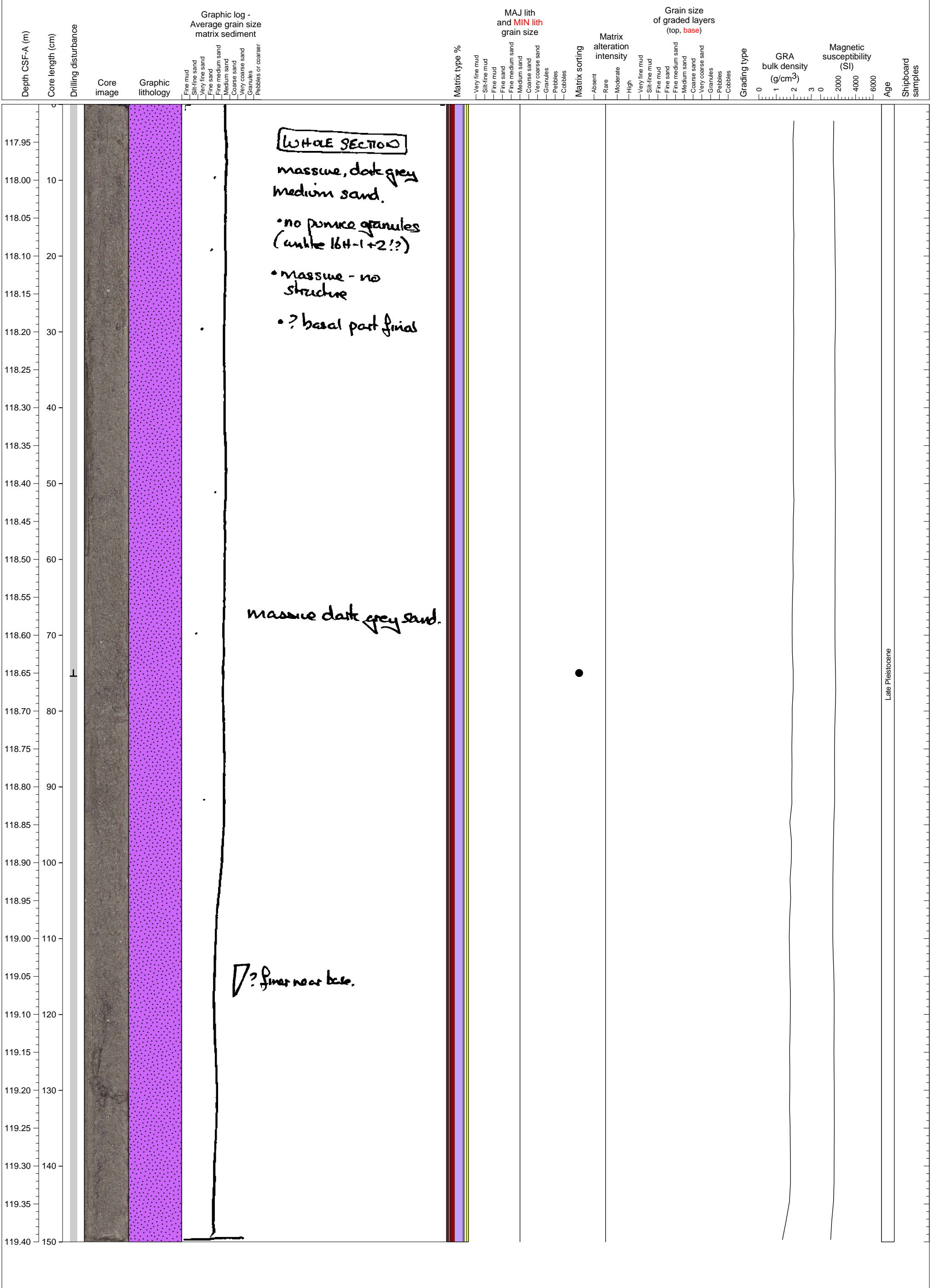


Late Pleistocene

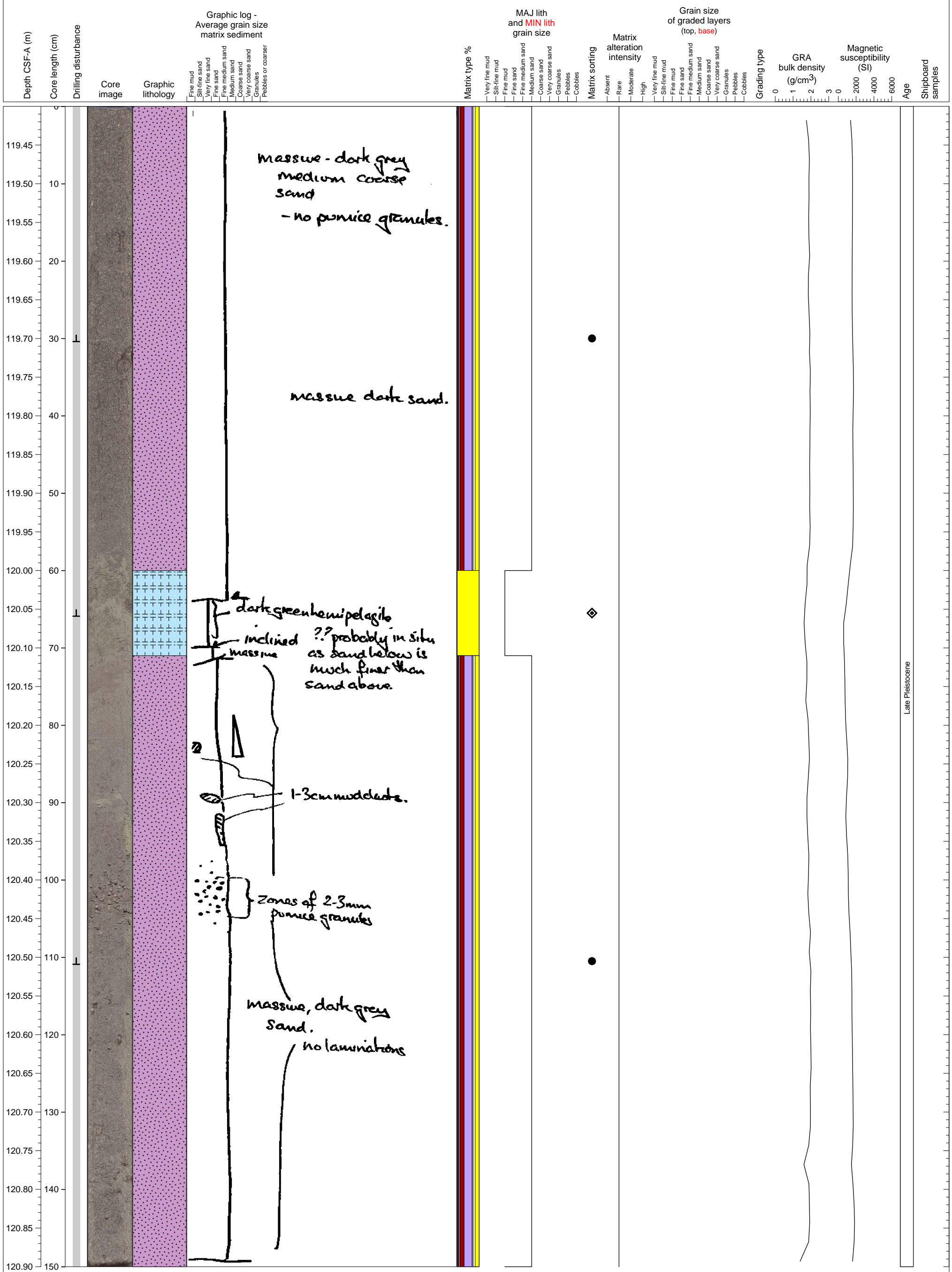
Massive pumiceous turbidite containing pumice, massive and vesiculated lava, and sediment clasts.



Medium-grained volcanoclastic sand unit.

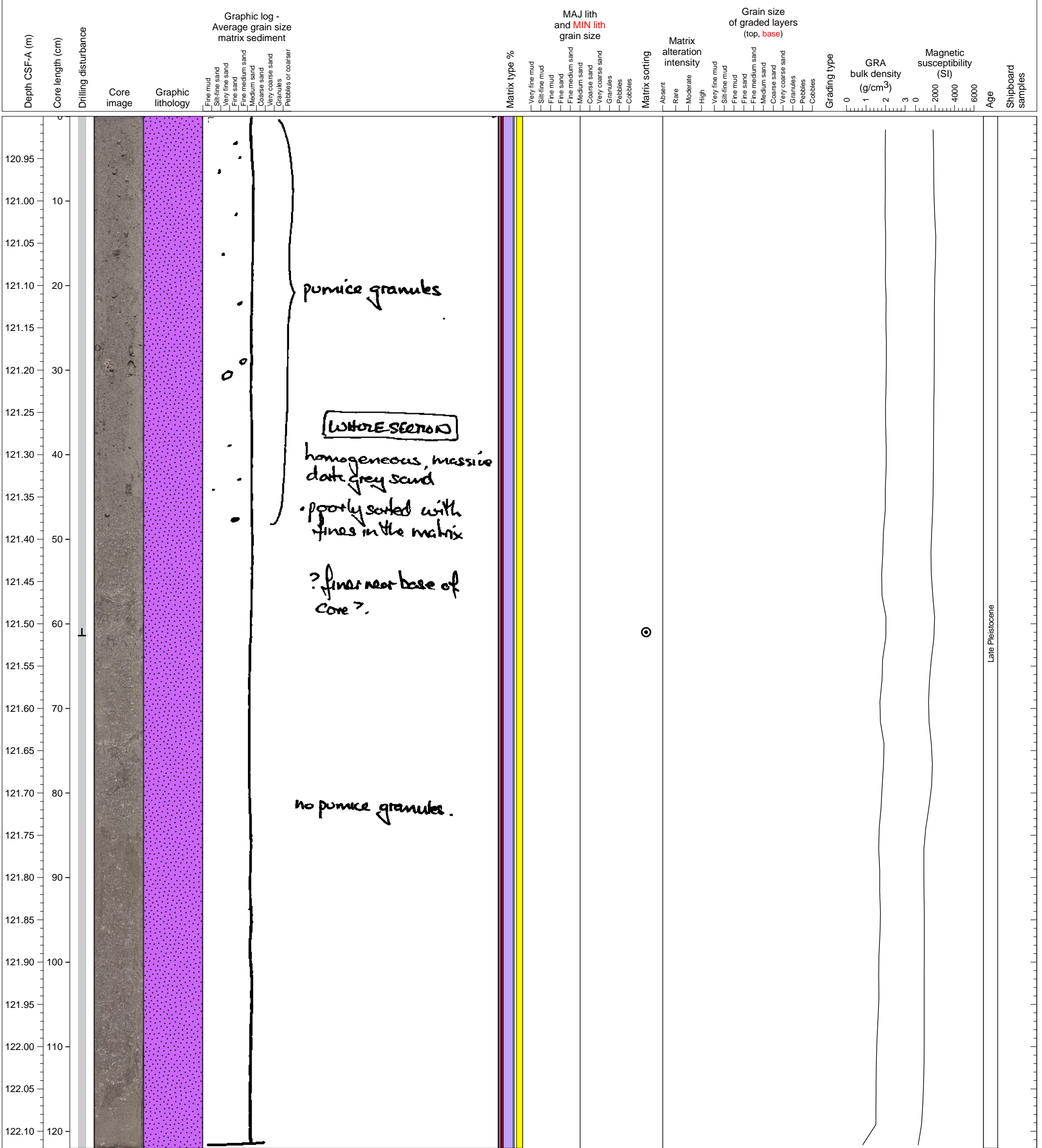


Medium-grained volcanoclastic sand units interlayered with hemipelagic clay.

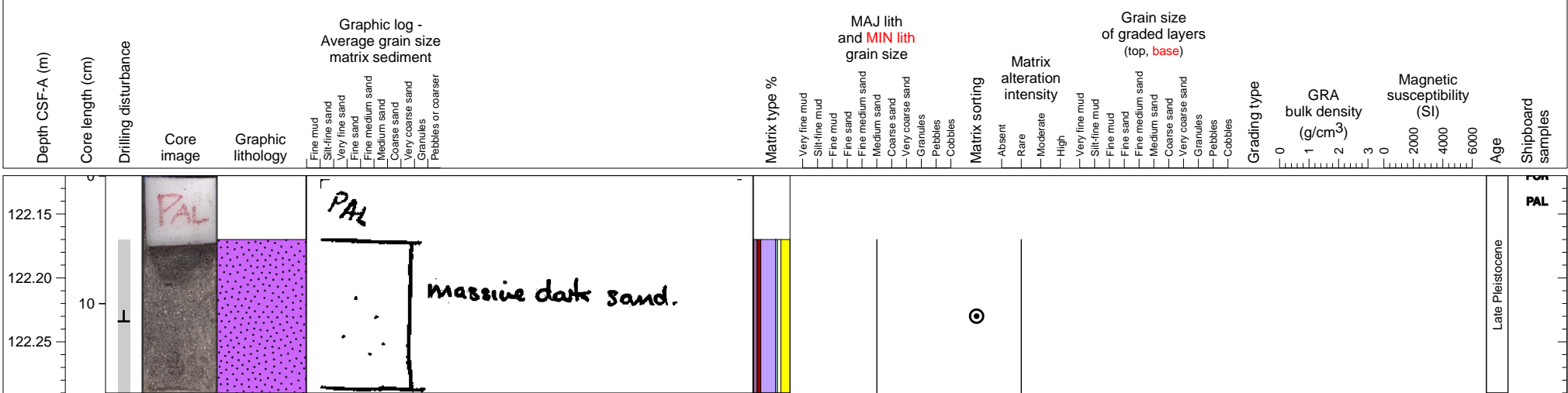


Late Pleistocene

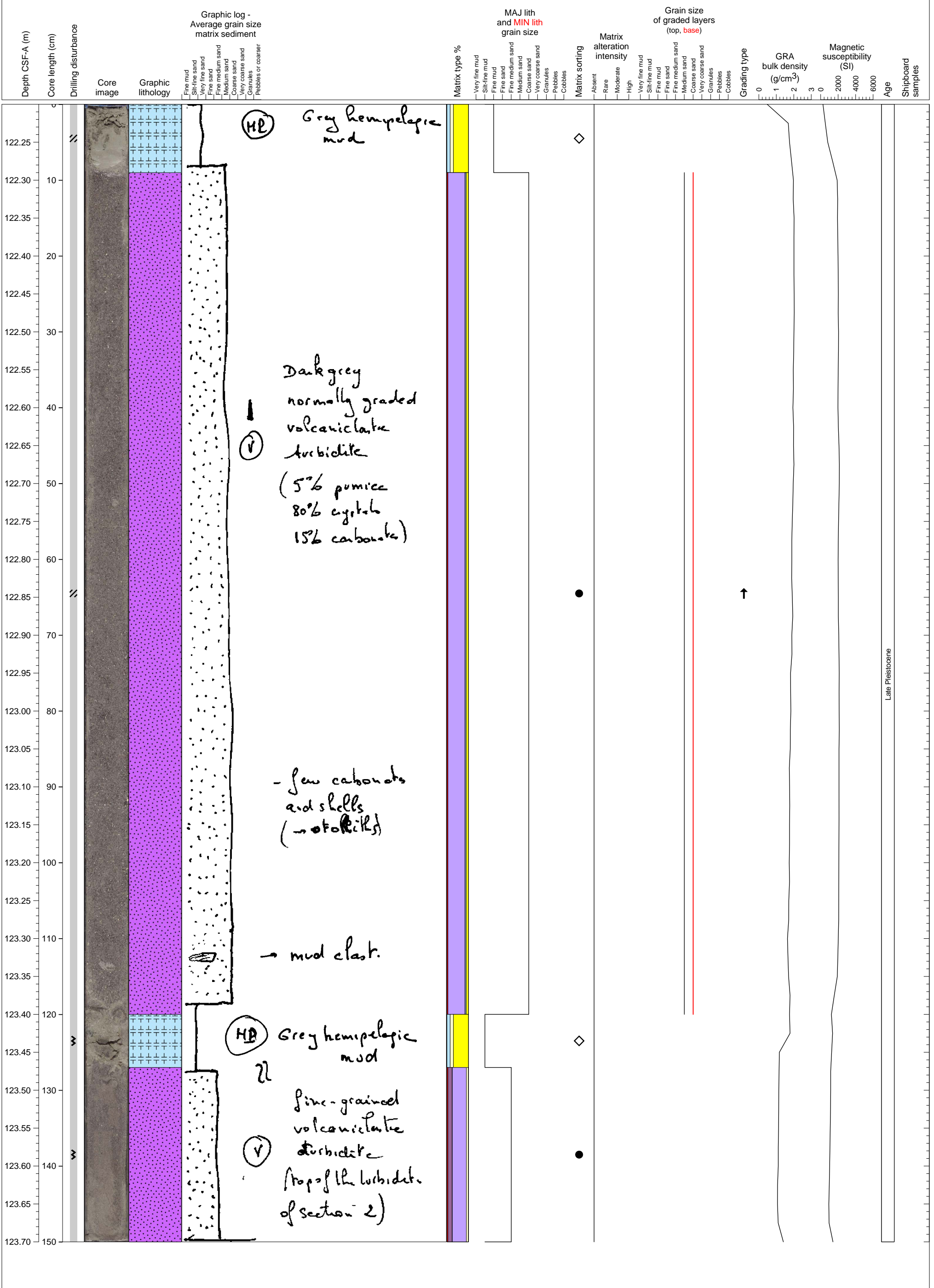
Medium-grained volcanoclastic sand unit.



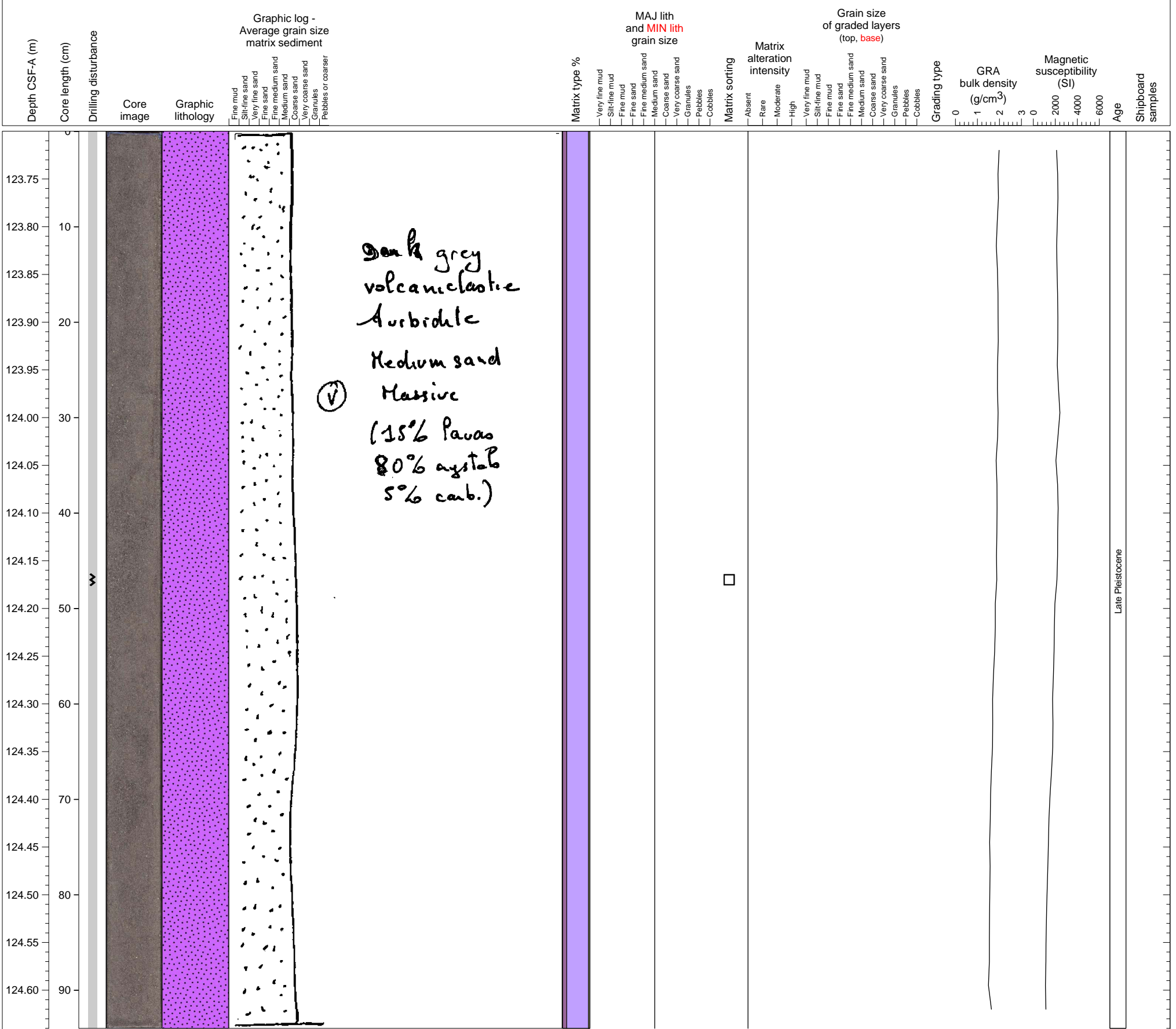
Volcaniclastic sand unit. PAL sample from section top.



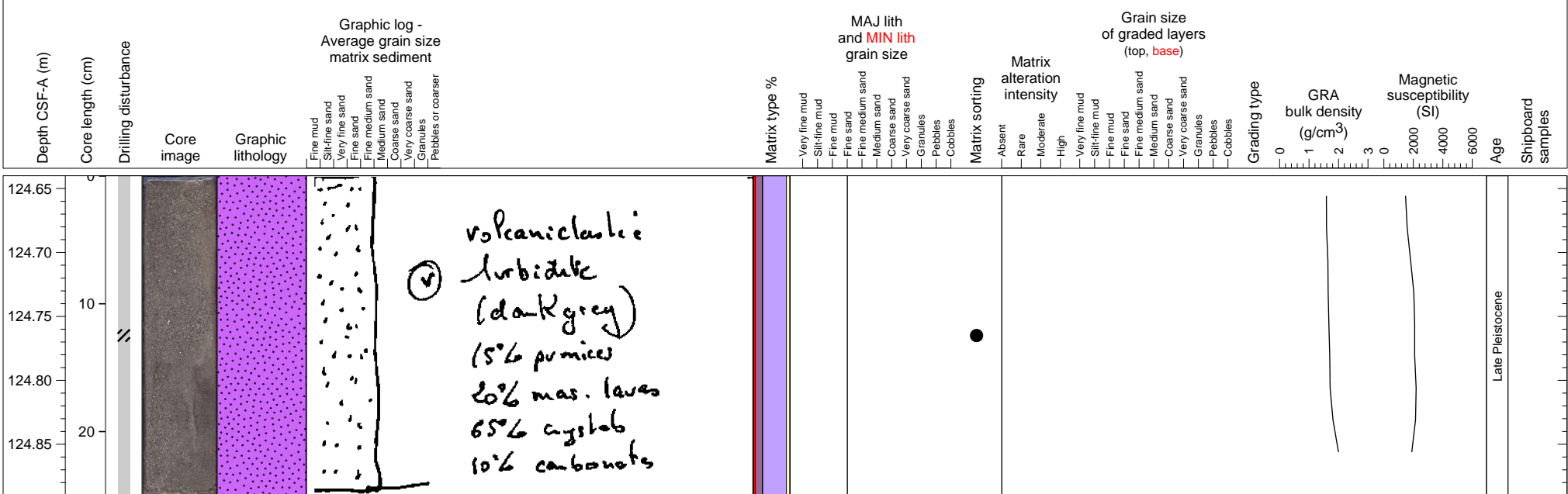
Volcaniclastic turbidite intercalated with hemipelagic sediments



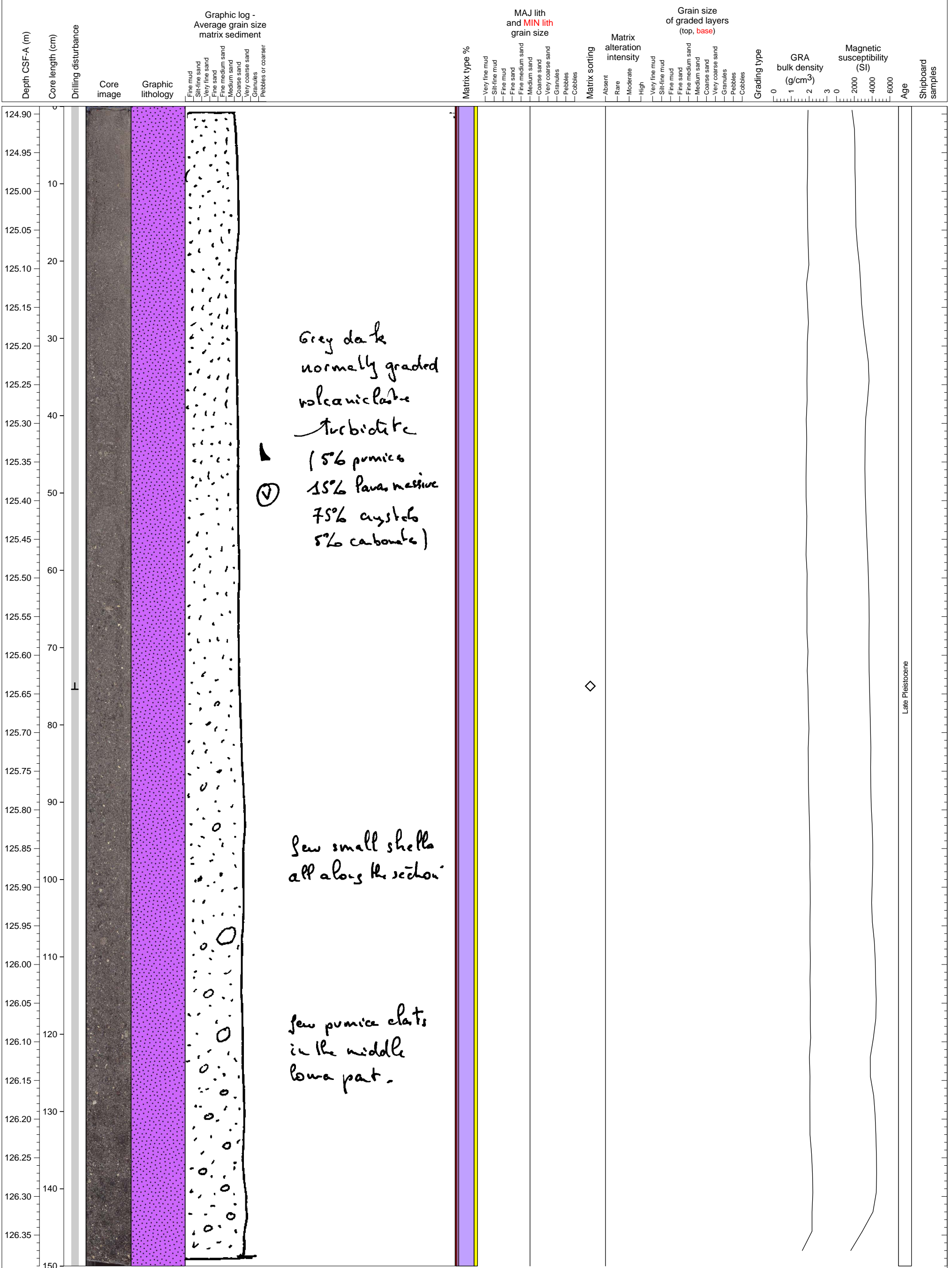
Part of a thick volcanic/bio-clastic turbidite



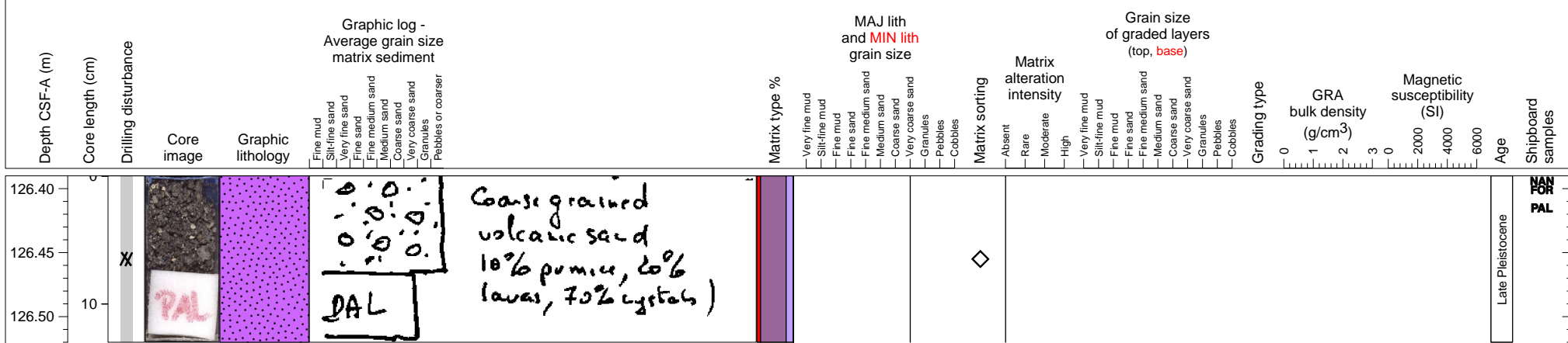
Massive volcanoclastic turbidite



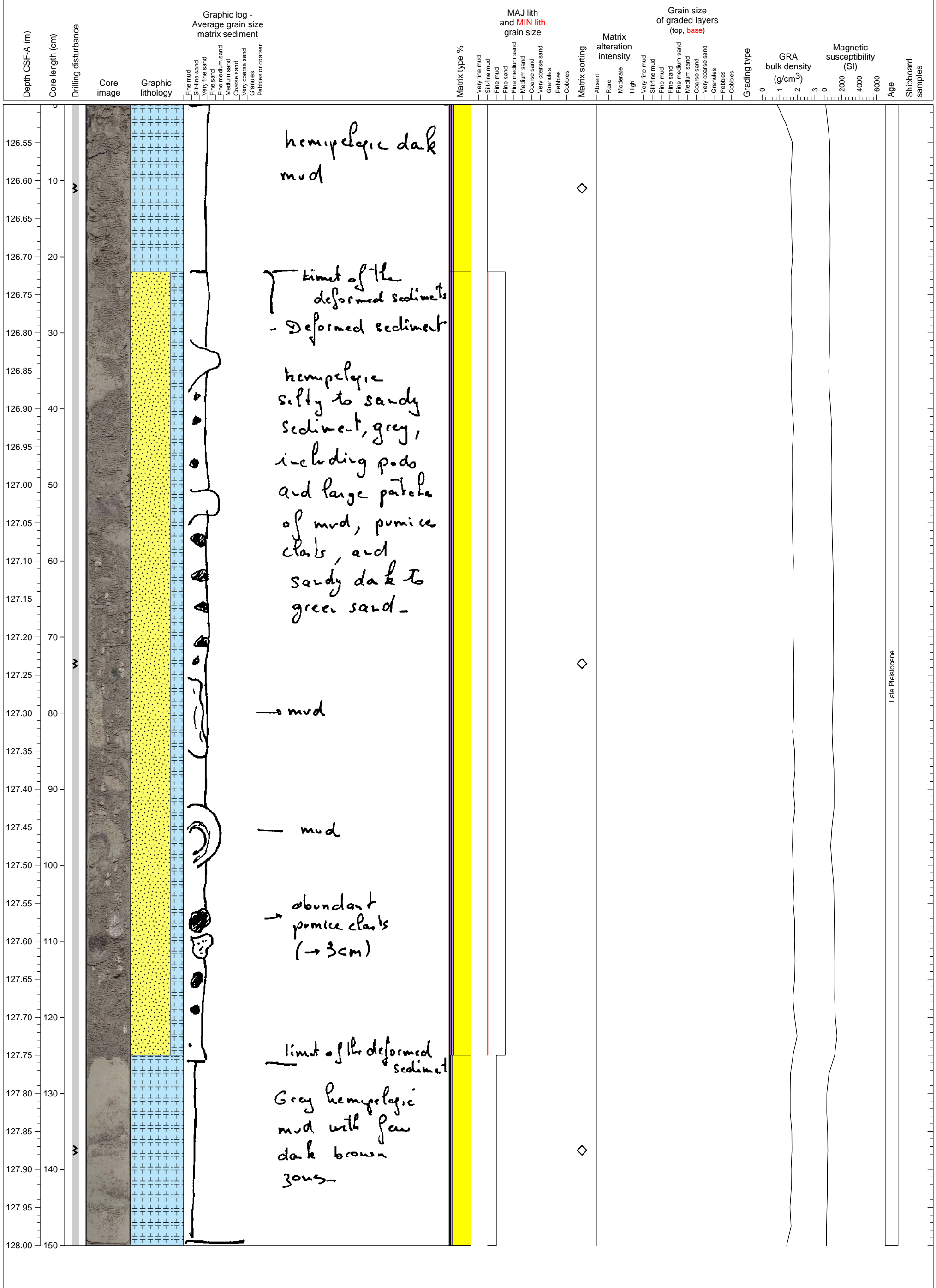
Part of a thick volcanoclastic turbidite.



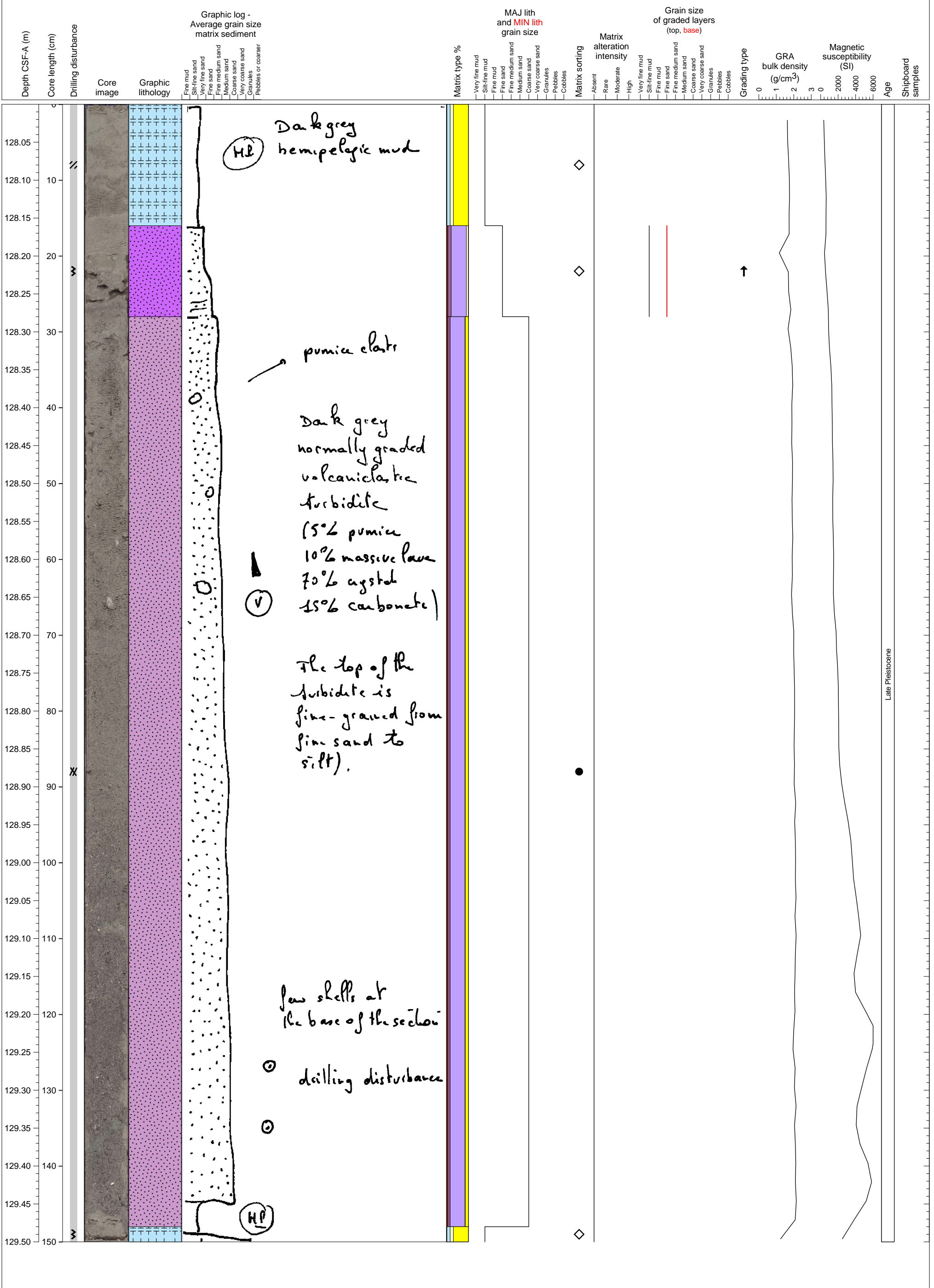
Coarse grained volcanoclastic turbidite in core catcher?



Silty to sandy hemipelagic sediment with a highly disturbed and mixed region in the middle of core section.

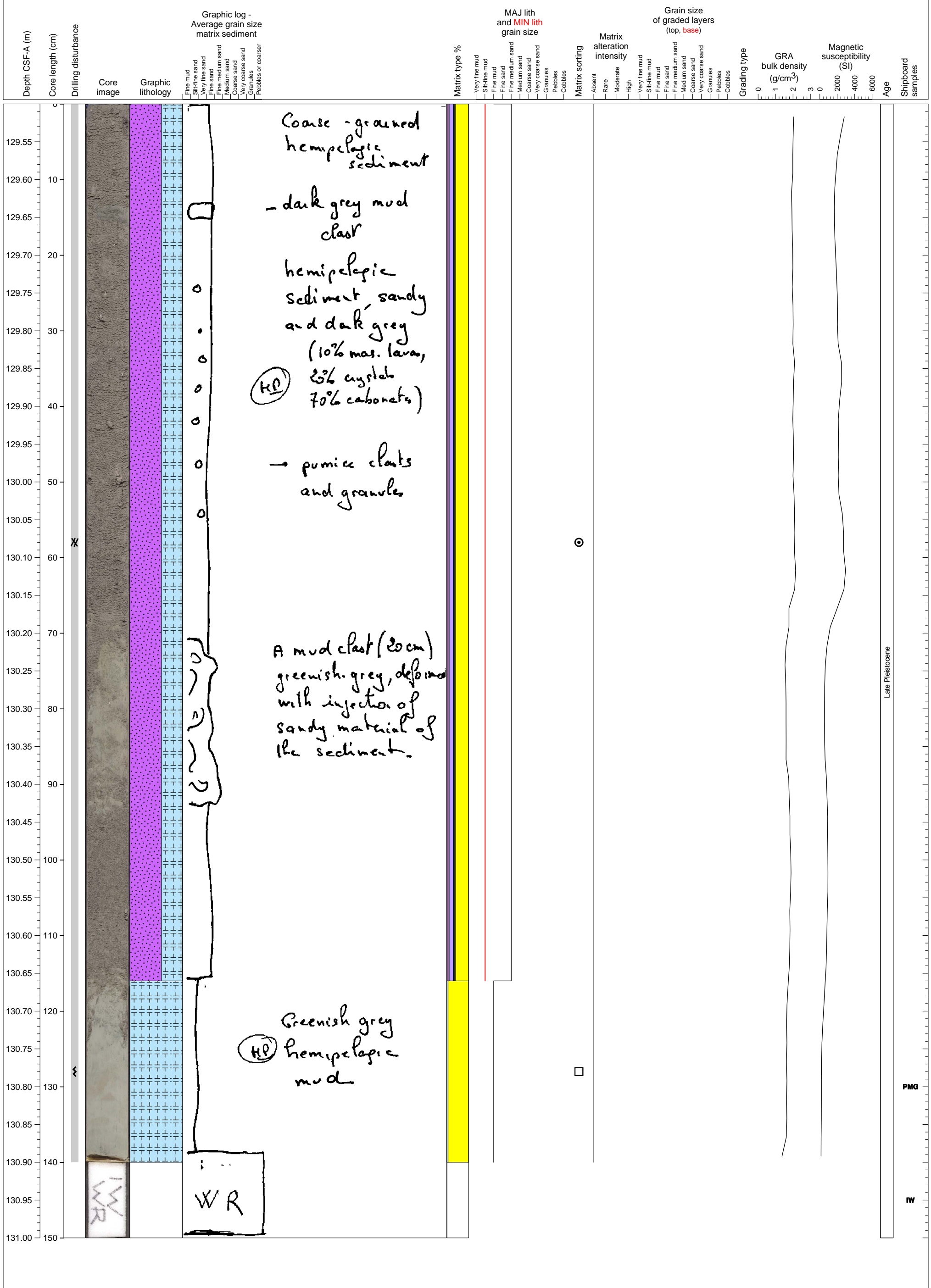


Volcaniclastic turbidite with intercalated hemipelagic sediment

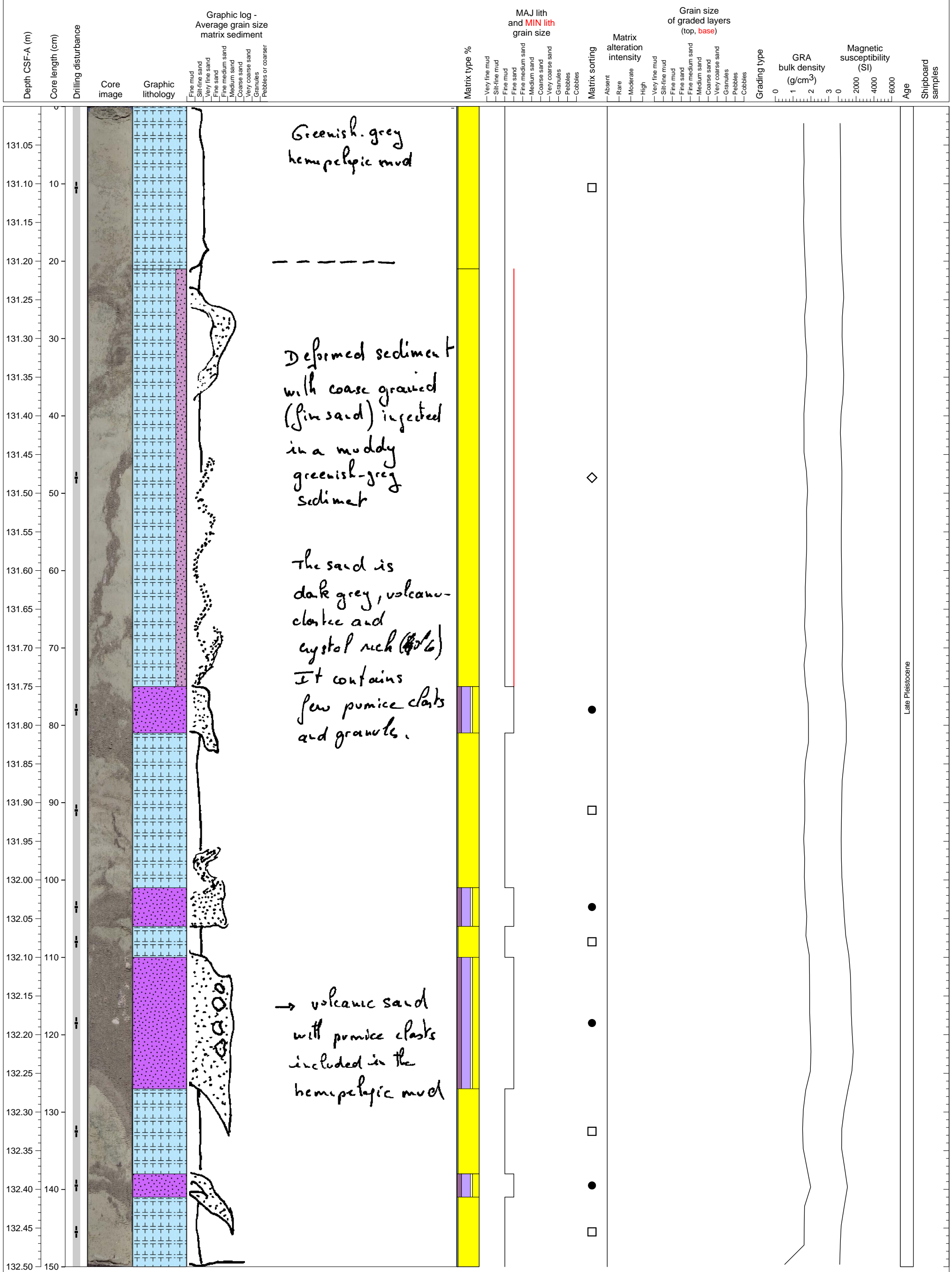


Late Pleistocene

Massive, very poor sorted volcanic/bioclastic mixed sand bed

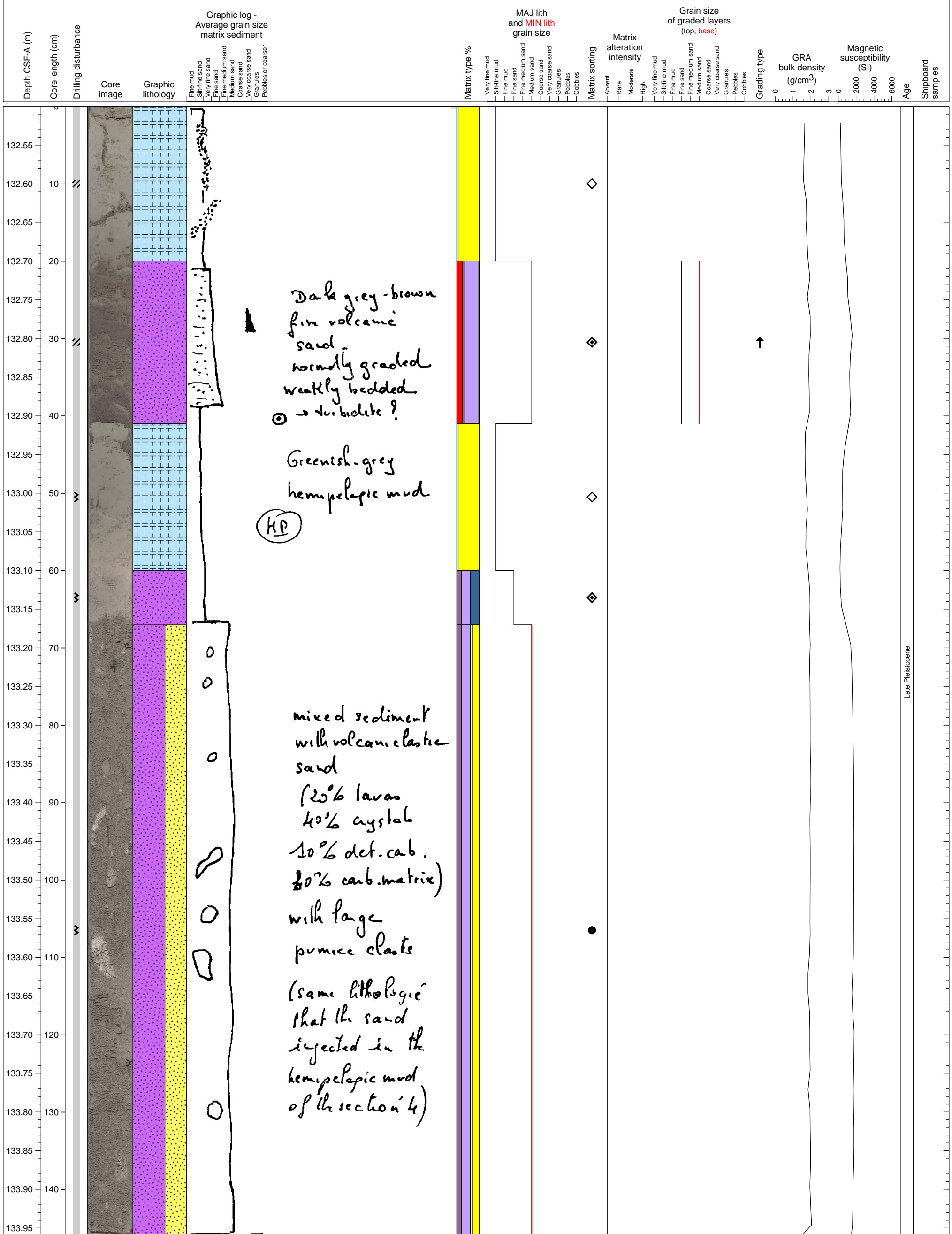


Deformed strata of hemipelagic and turbidite; clastic dyke like structures



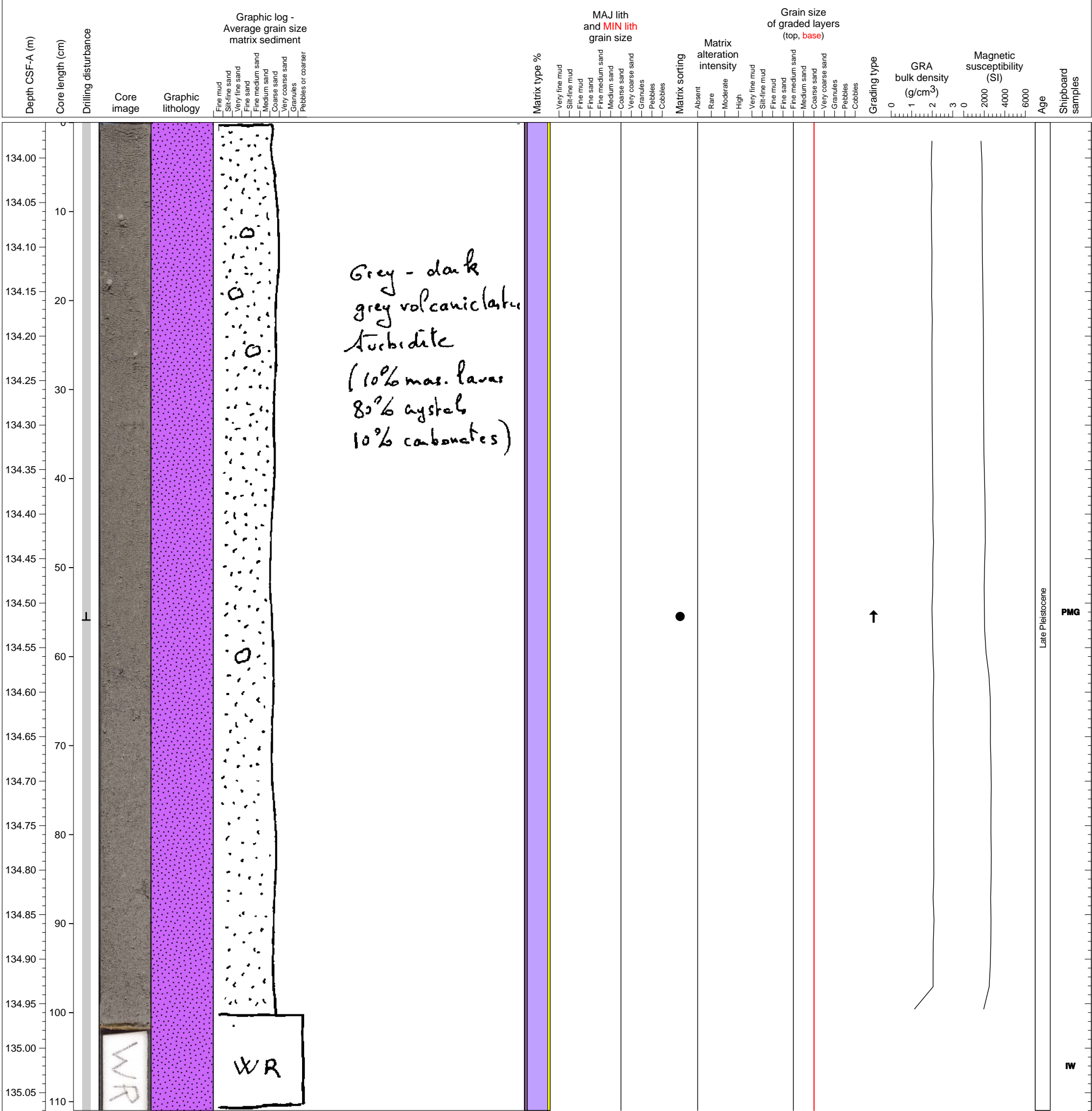
Late Pleistocene

Hemipelagic sediments with intercalated volcanoclastic sediments

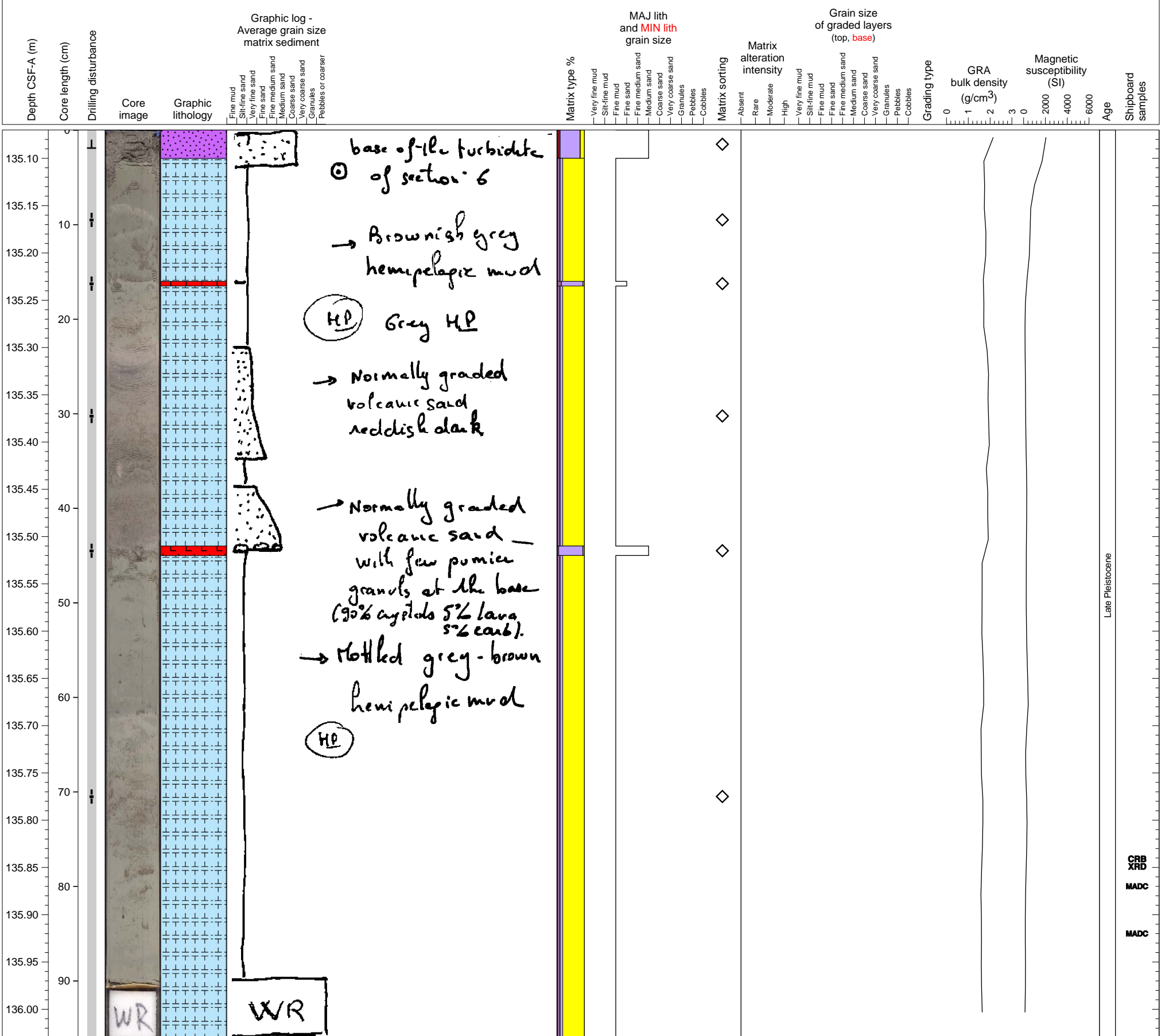


Late Pleistocene

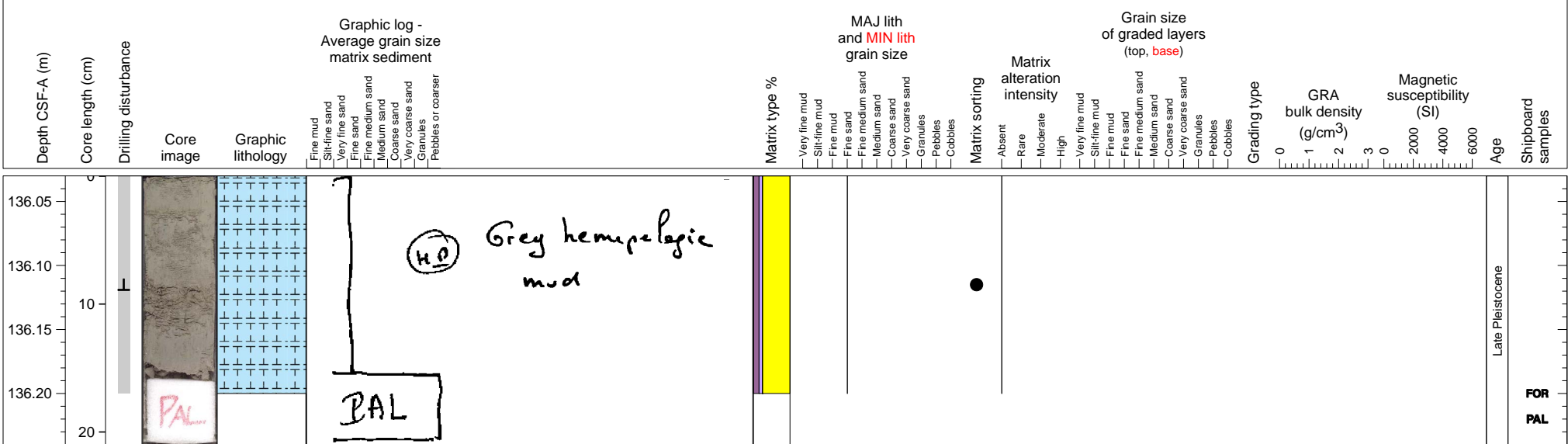
Normally graded volcaniclastic turbidite



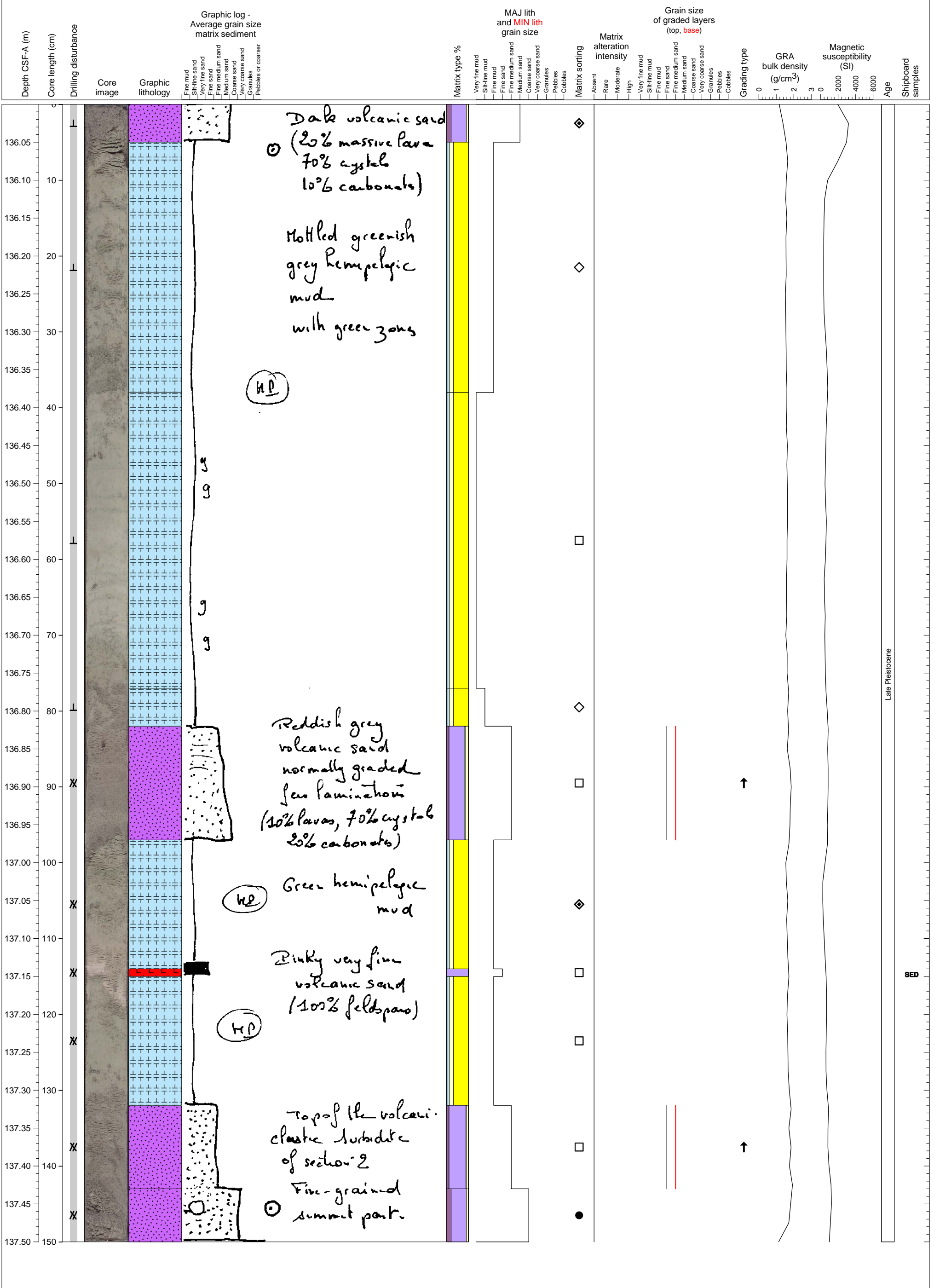
Thin base of turbidite from Section 6, overlying hemipelagic sediments, sometimes sandy, with two thin ash layers interbedded.



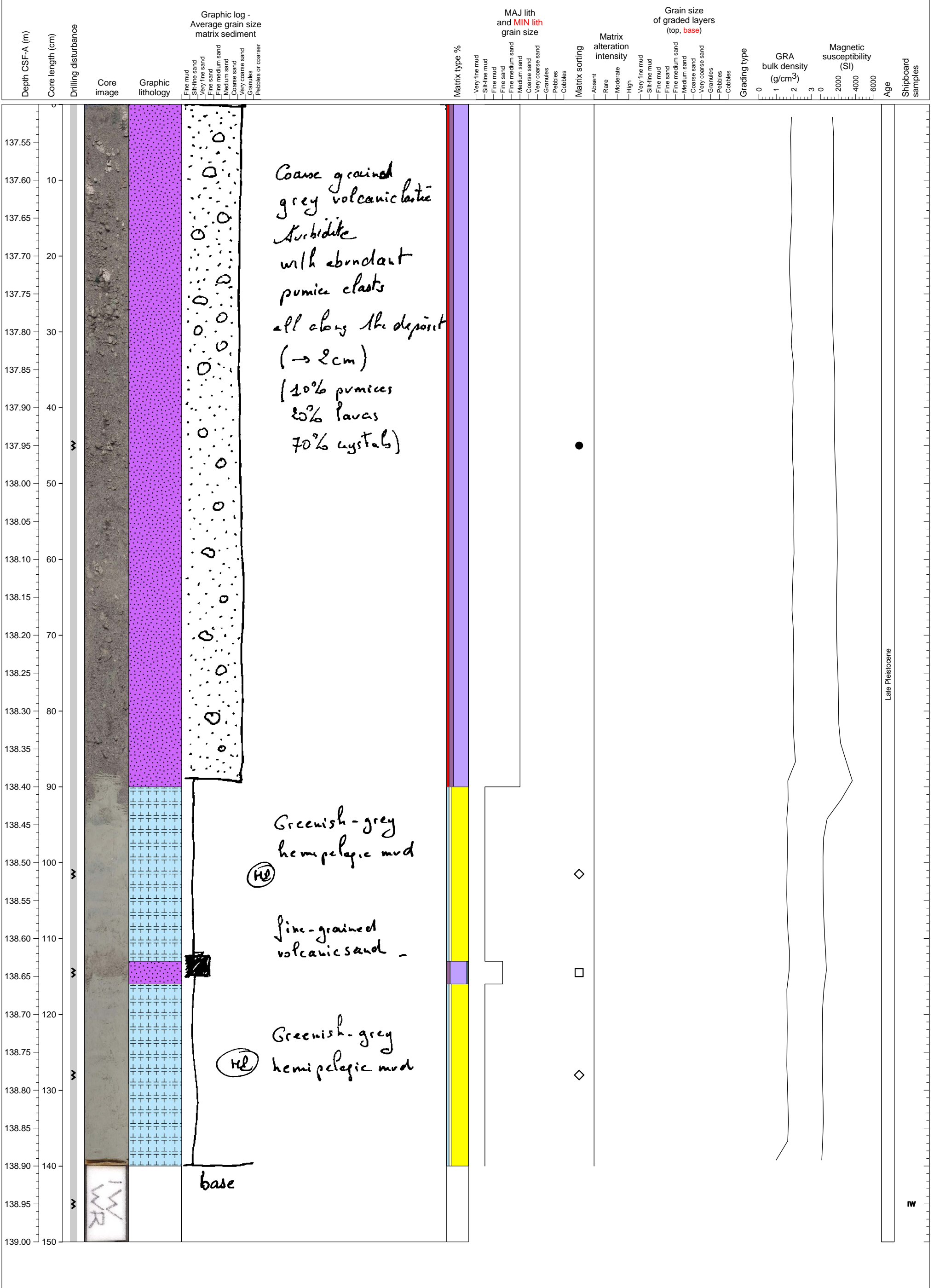
Sandy, dark hemipelagic sediment



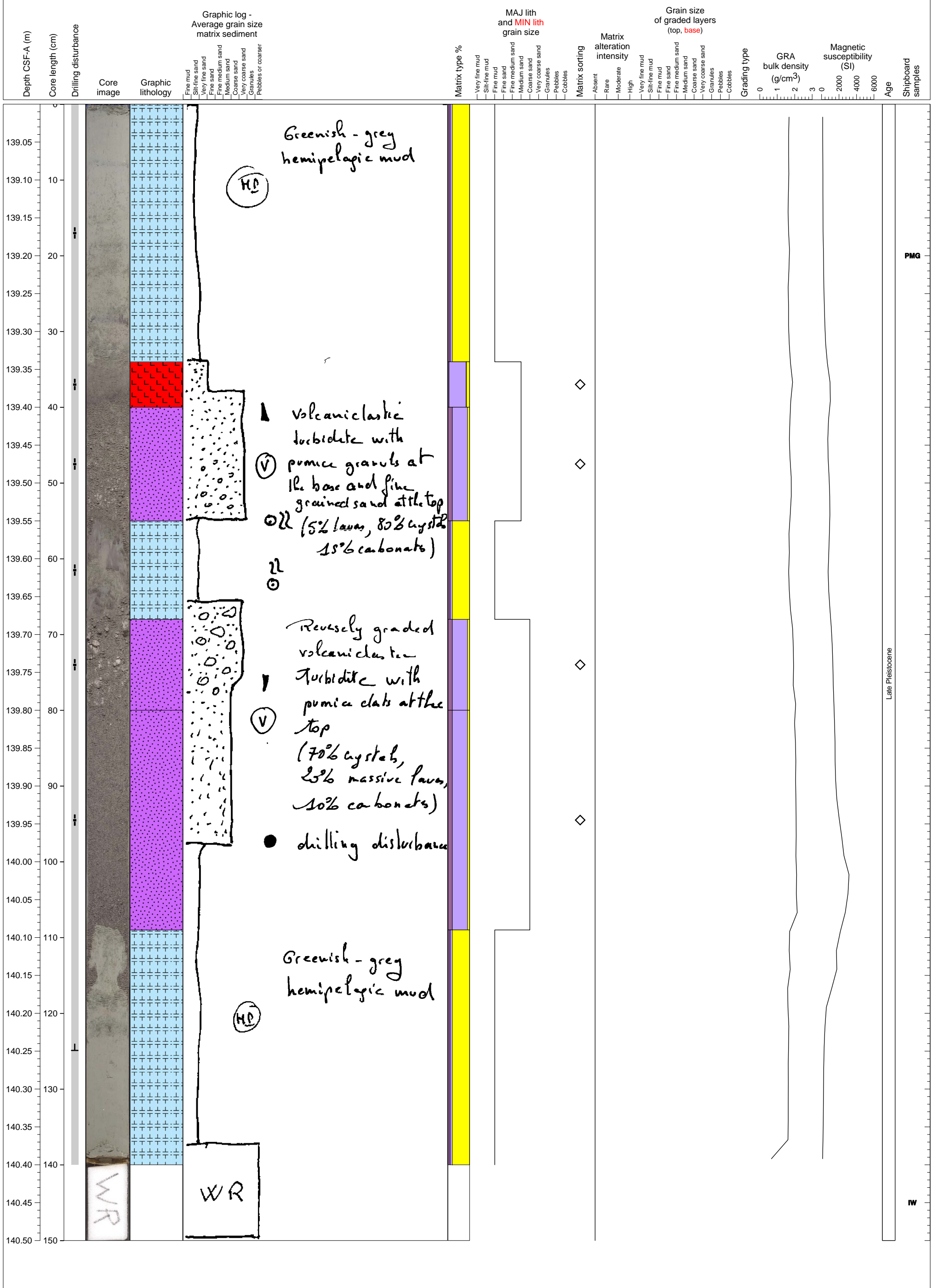
Hemipelagite with volcanoclastic layers and 1 pinkish grey thin ashfall layer



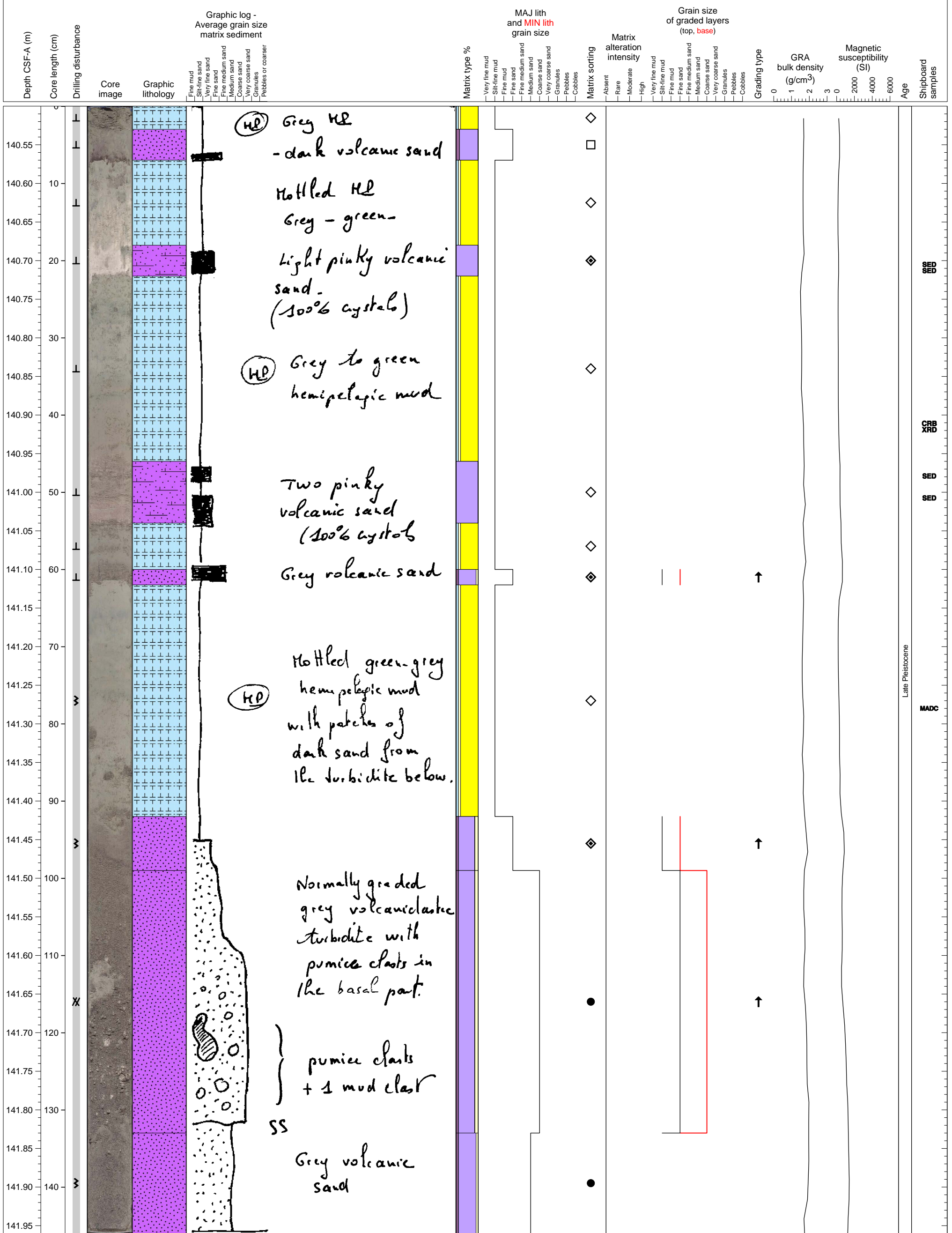
Hemipelagic sediments intercalated with volcanoclastic turbidite and volcanic sand layers



Mixture of volcanoclastic turbidites, a fine ash layer and hemipelagic sediments



Hemipelagic sediments intercalated with volcanoclastic turbidites and several tephra layers

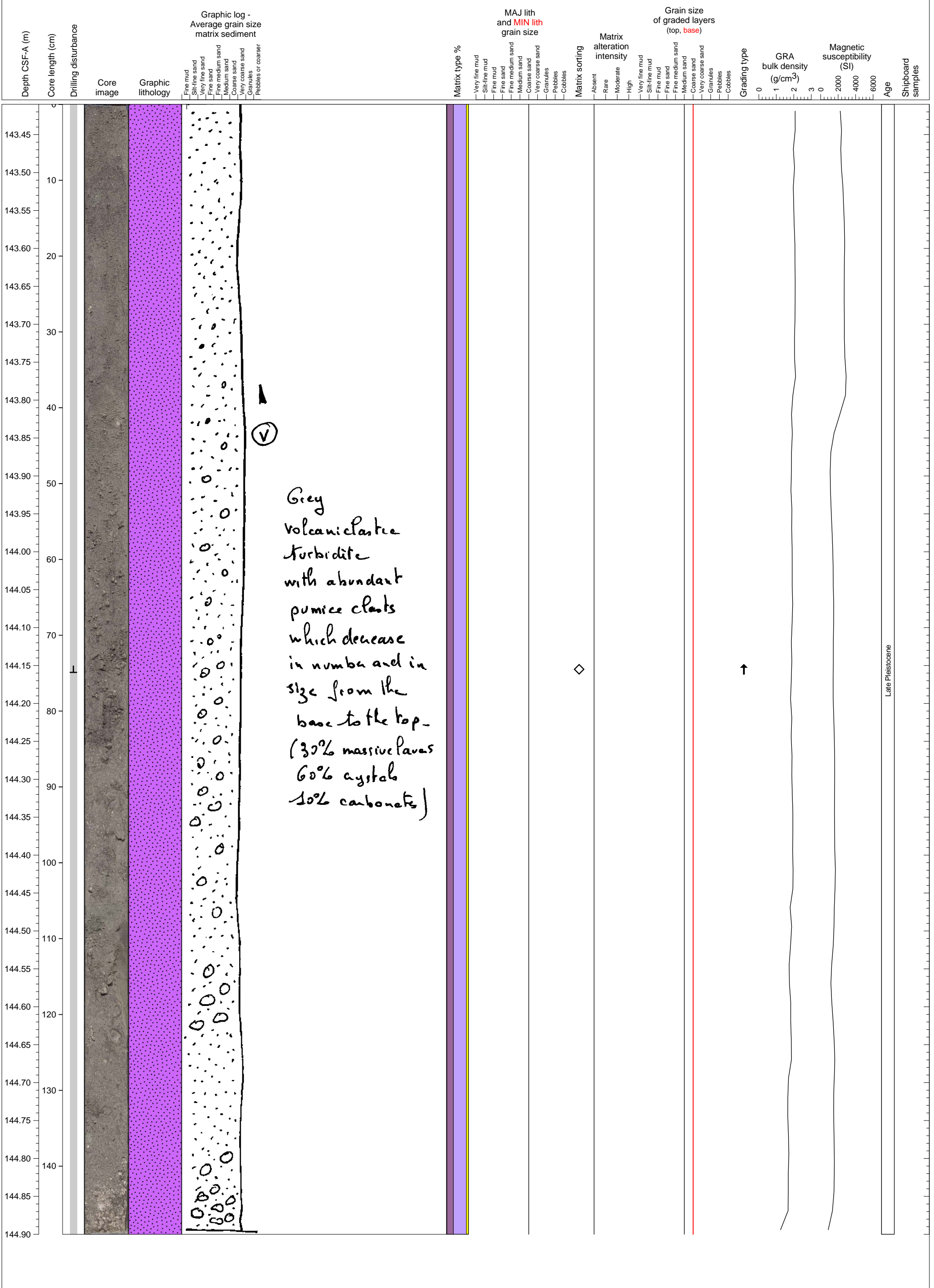


Several units of volcanoclastic turbidite

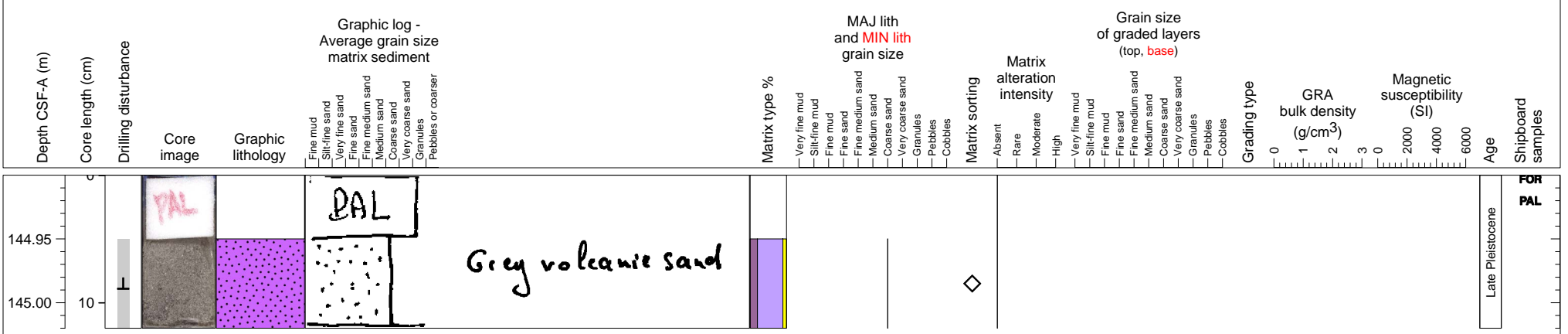


Late Pleistocene

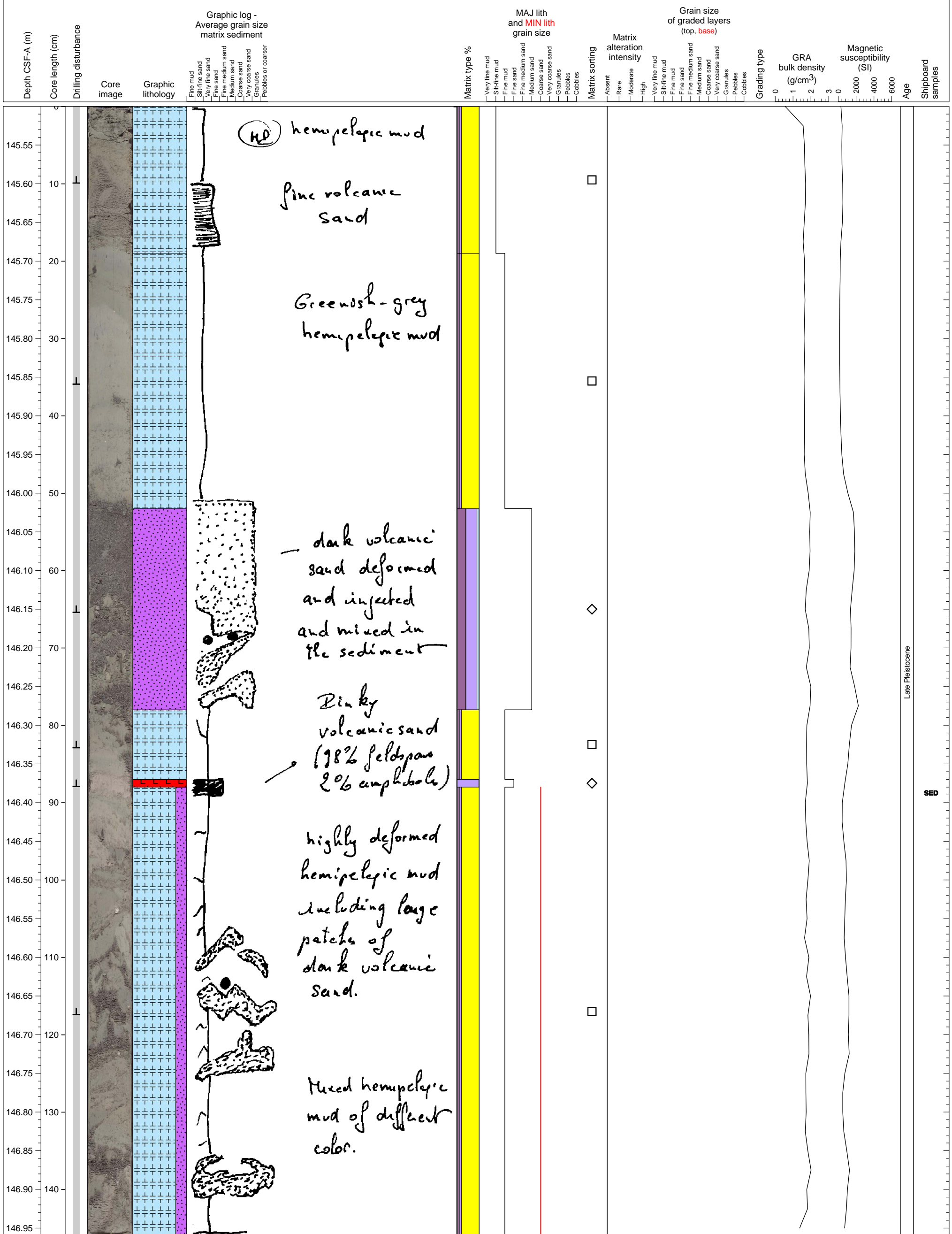
Volcaniclastic turbidite



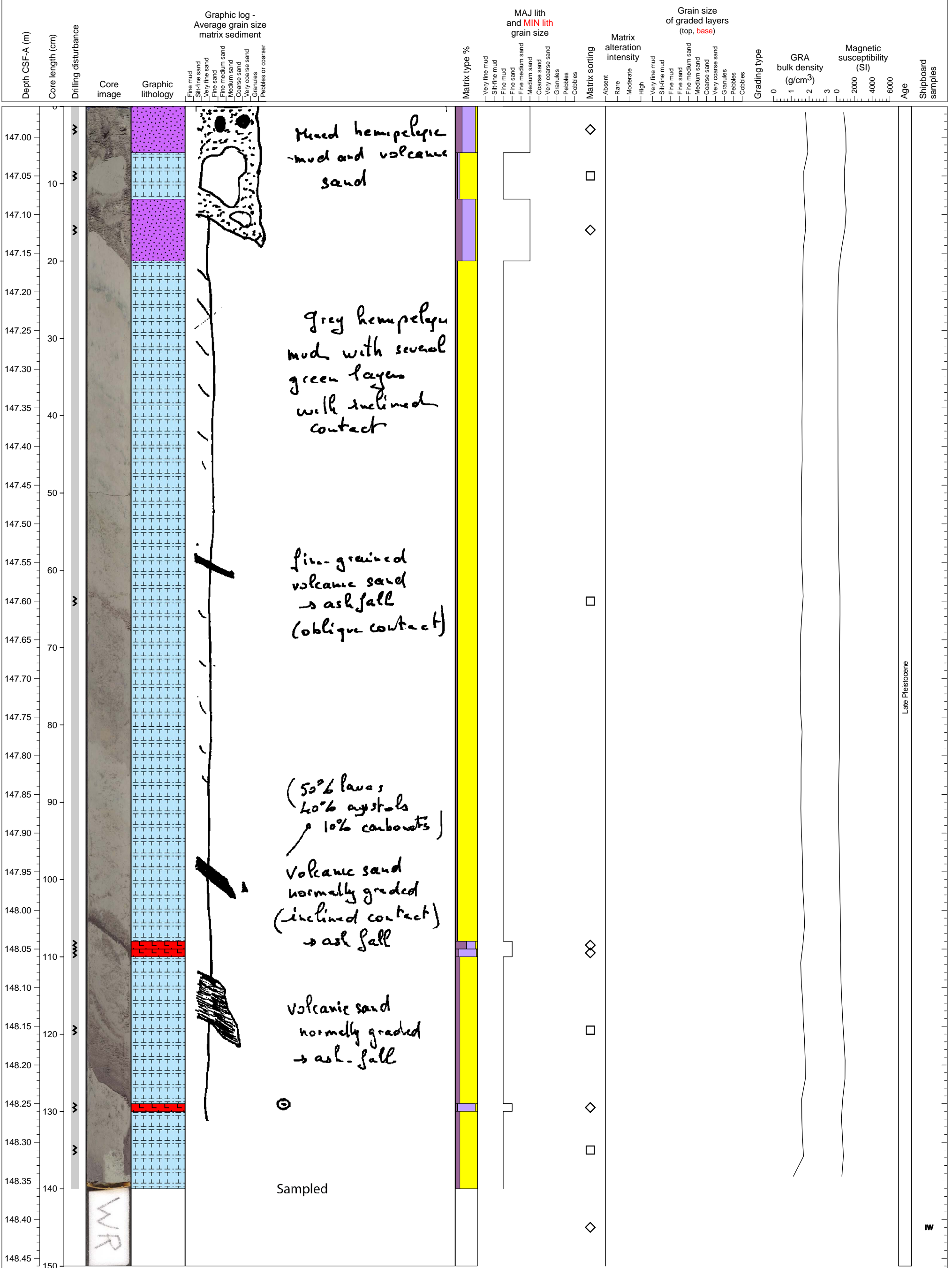
Volcaniclastic turbidite



Hemipelagic sediments with a small volcanoclastic turbidite and a thin ash layer.



Hemipelagic sedimen and volcanoclastic turbidites, with three thin ash layers. Some parts of section are disturbed.



Late Pleistocene

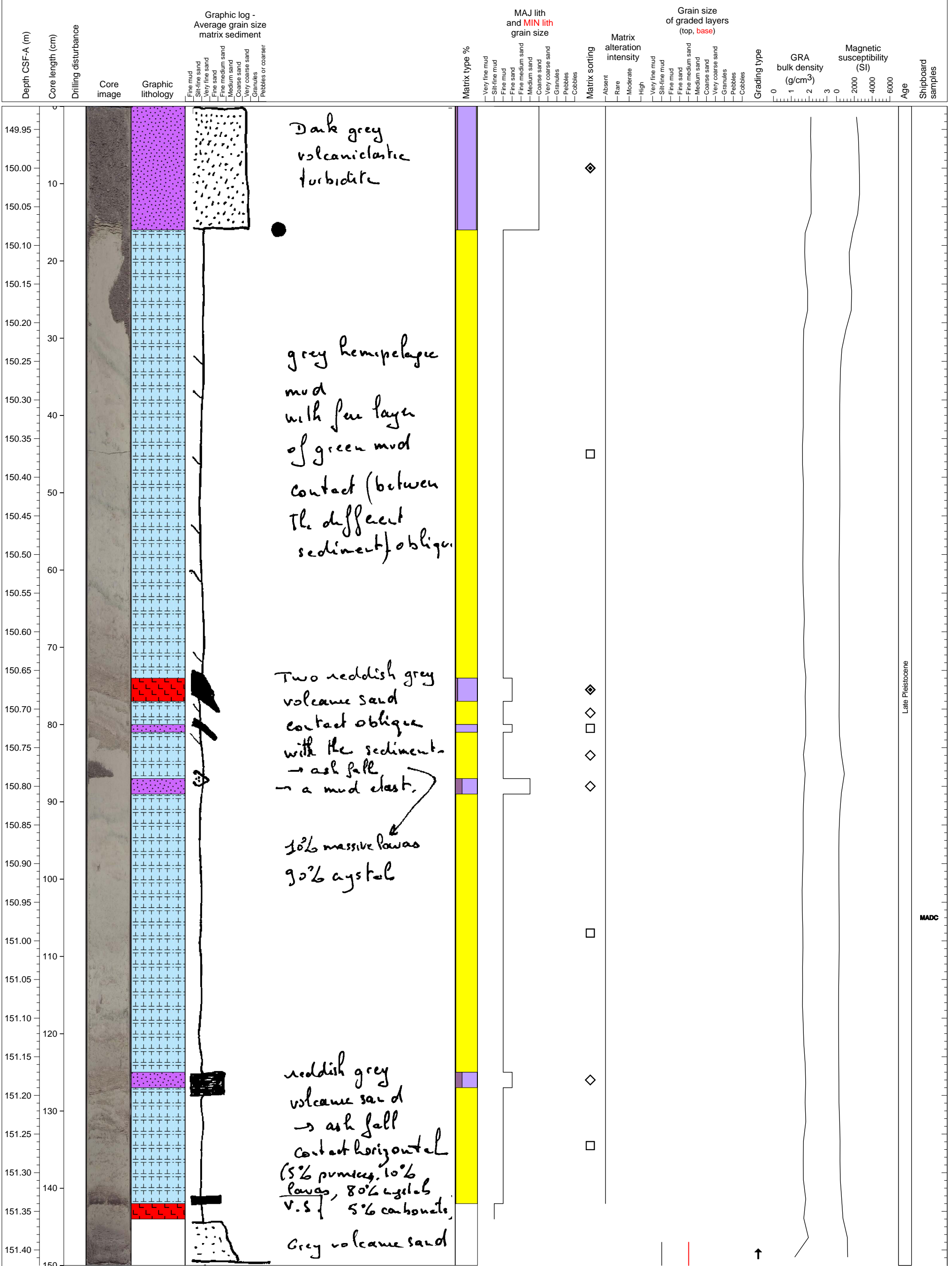
W

Mixture of volcanoclastic turbidites and hemipelagic sediments.



Late Pleistocene

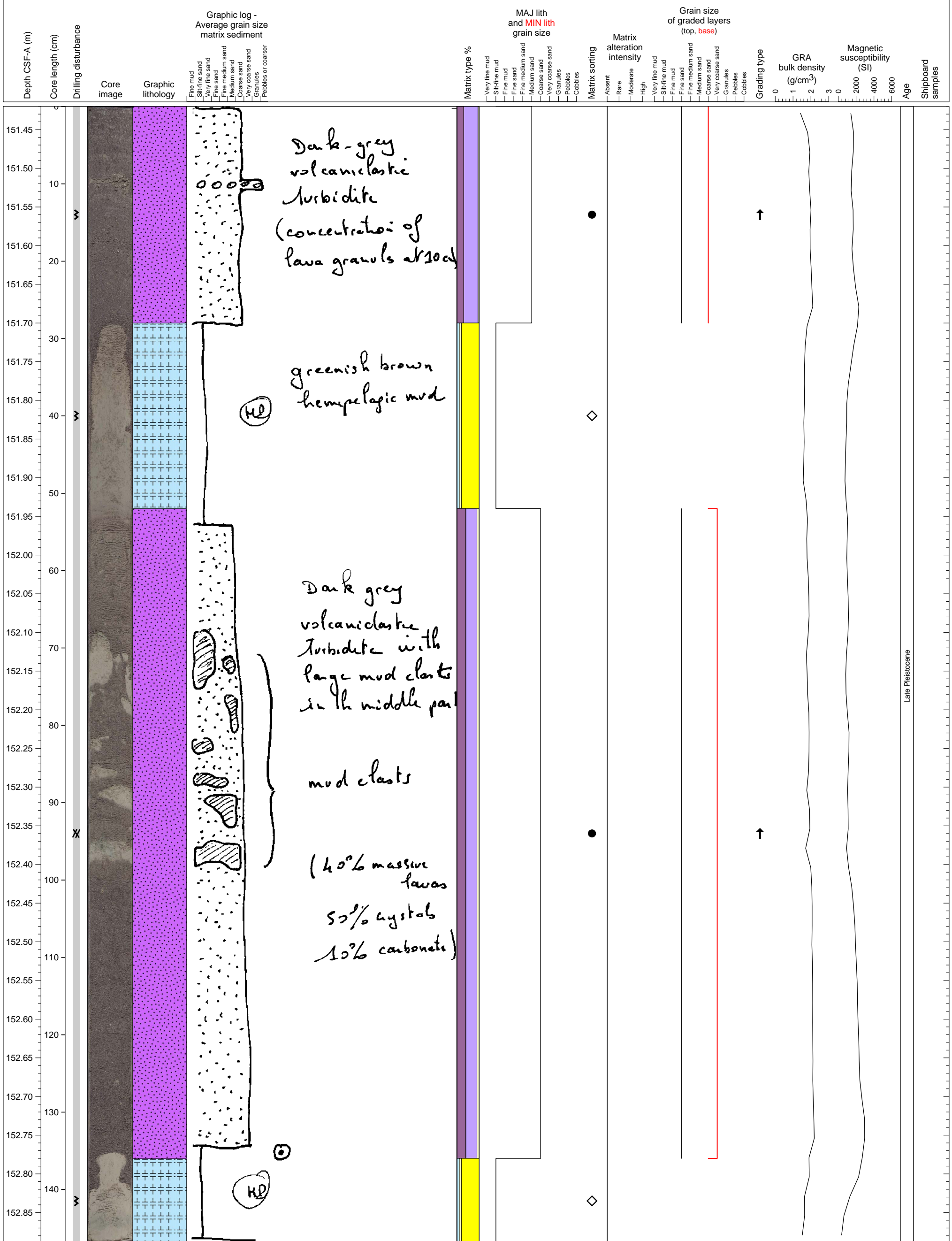
Hemipelagic fine sediments with several intercalations of thin ashfall layers. The top is occupied with volcanoclastic turbidite



Late Pleistocene

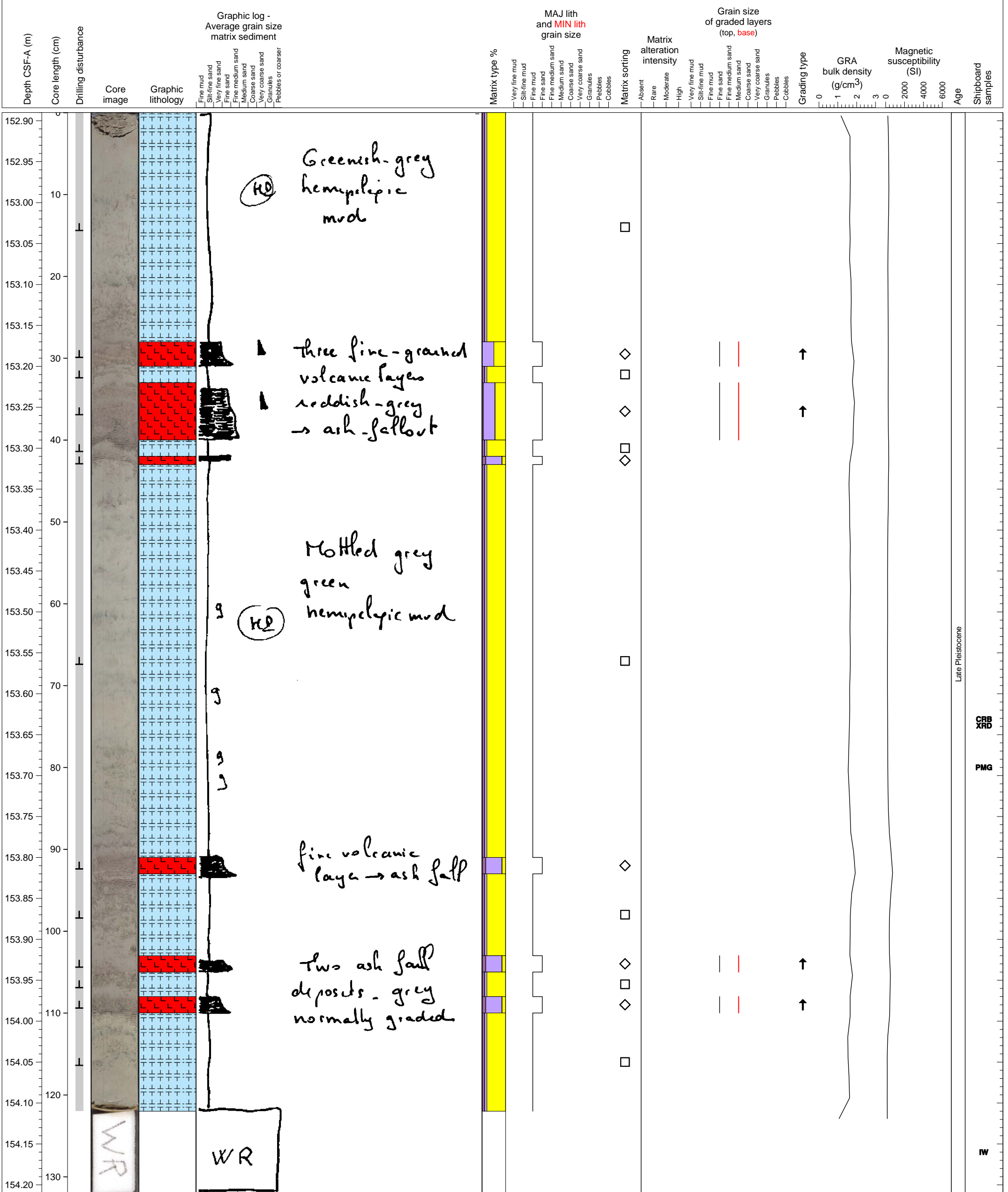
MADC

Volcaniclastic turbidite with intercalating hemipelagic sediment

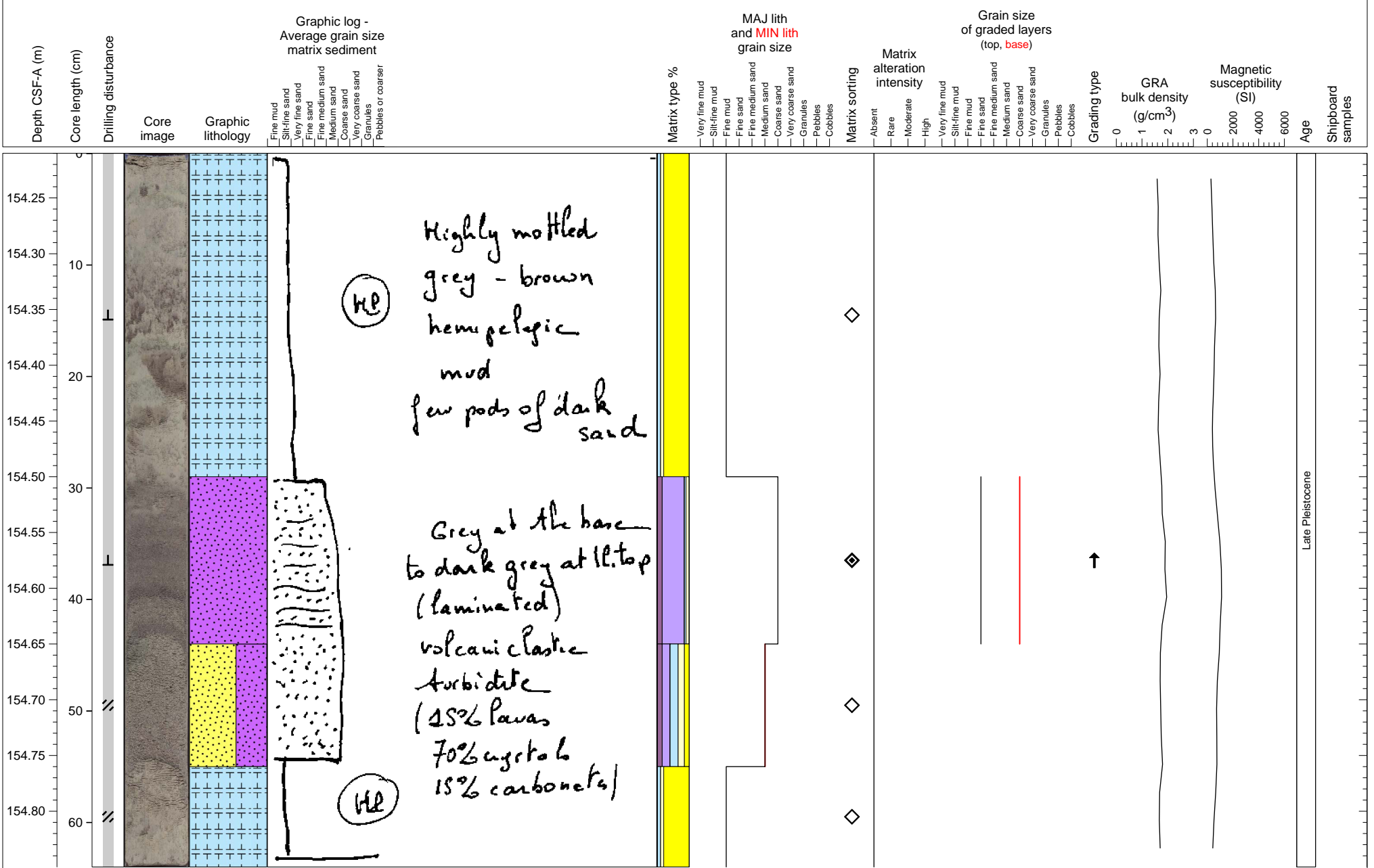


Late Pleistocene

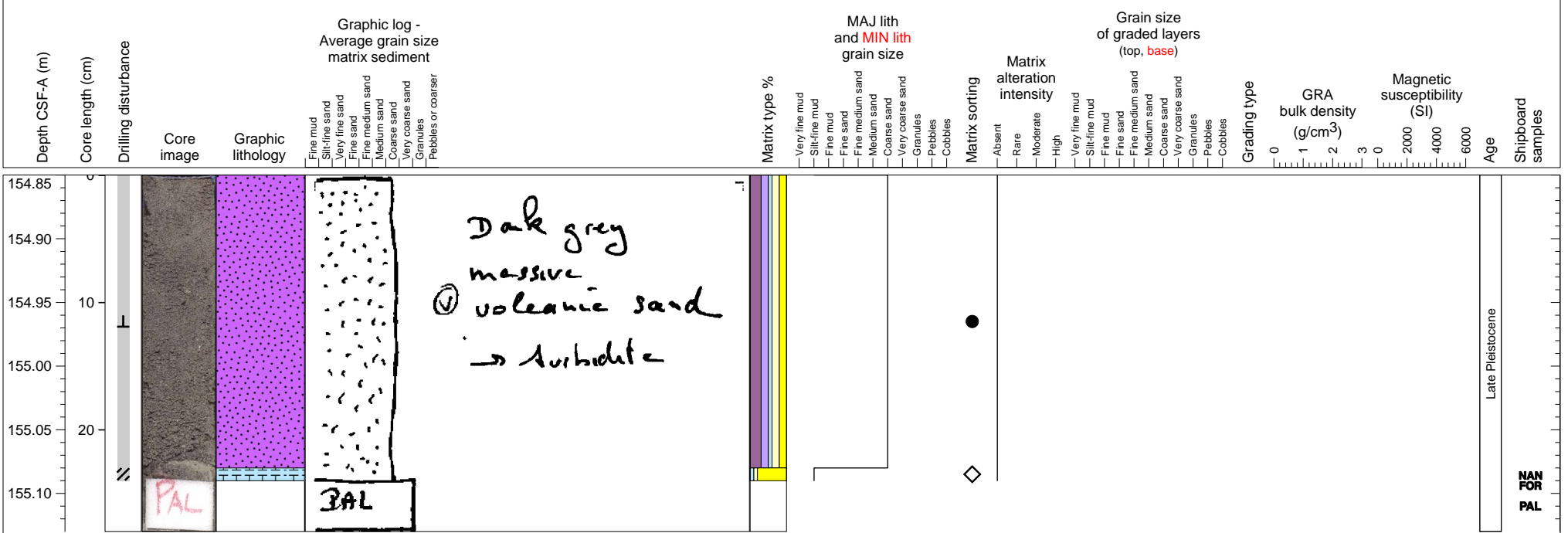
Hemipelagic sediments with six thin ash layers, some normally graded



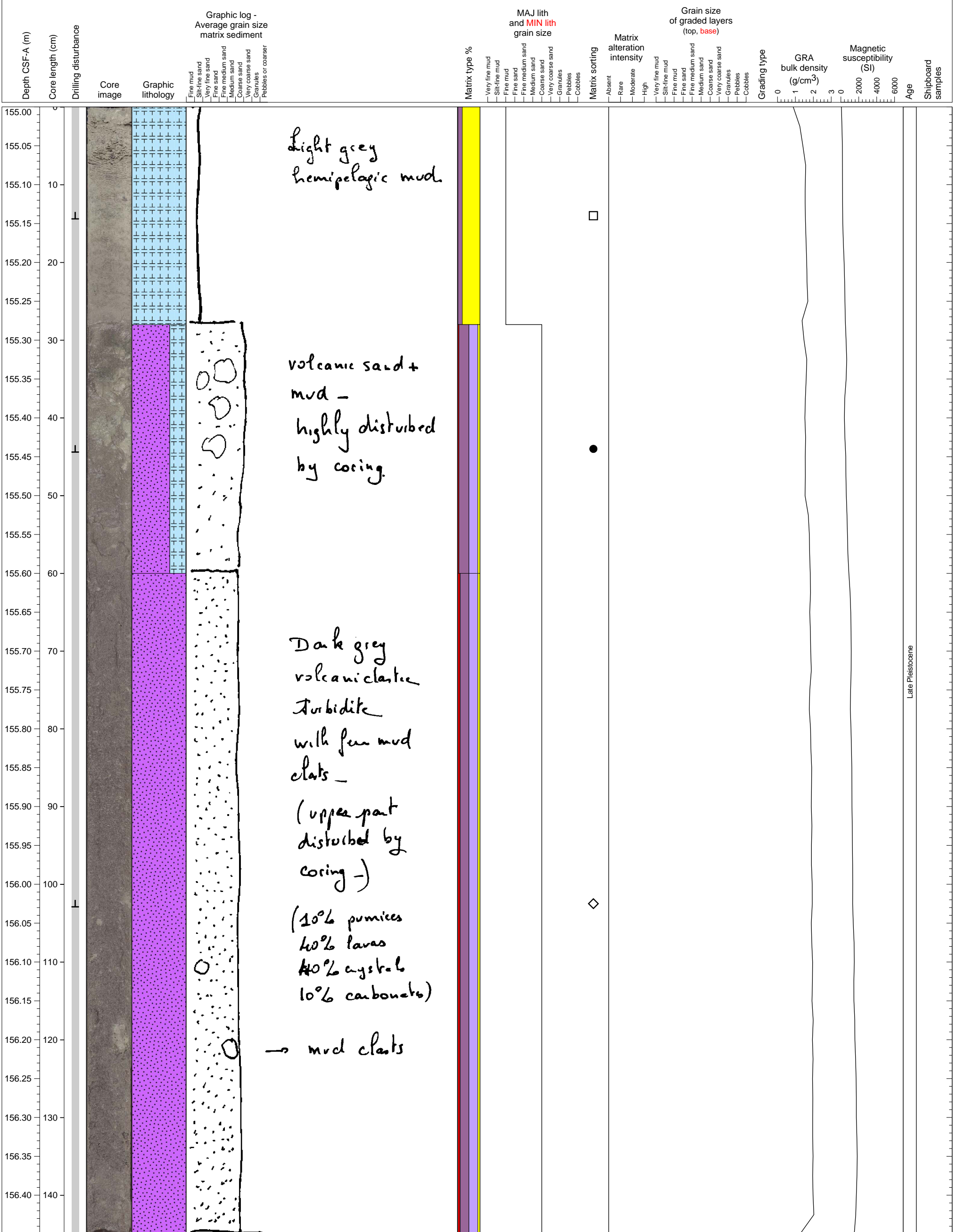
Intercalation of hemipelagic sediments and volcanoclastic and mixed turbidites



Volcaniclastic turbidite with intercalated hemipelagic sediment

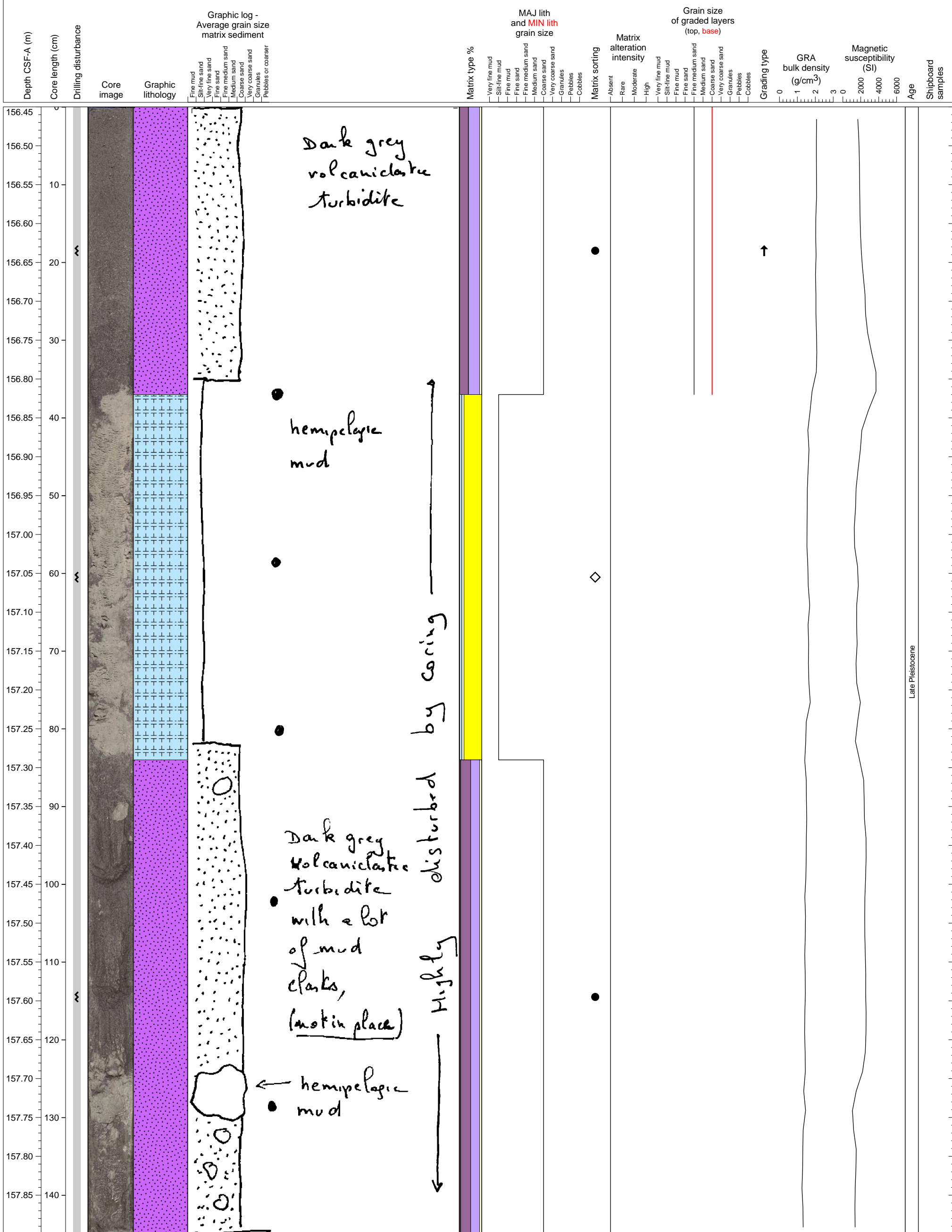


Hemipelagic sediment overlying a disturbed layer containing both hemipelagic sediment and volcanoclastic sand with a volcanoclastic turbidite at the base.



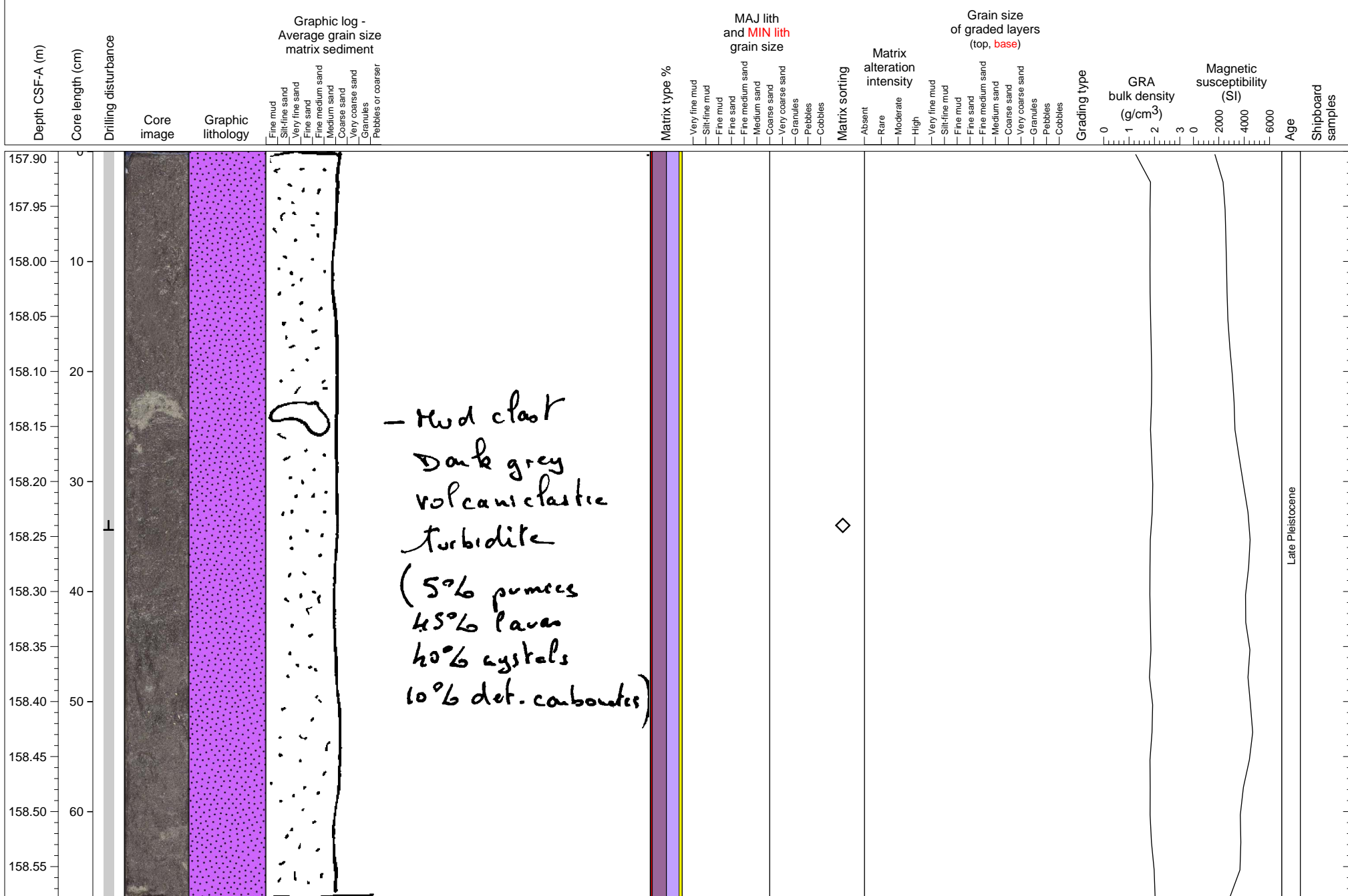
Late Pleistocene

Intercalation of volcanoclastic turbidite and hemipelagic sediments

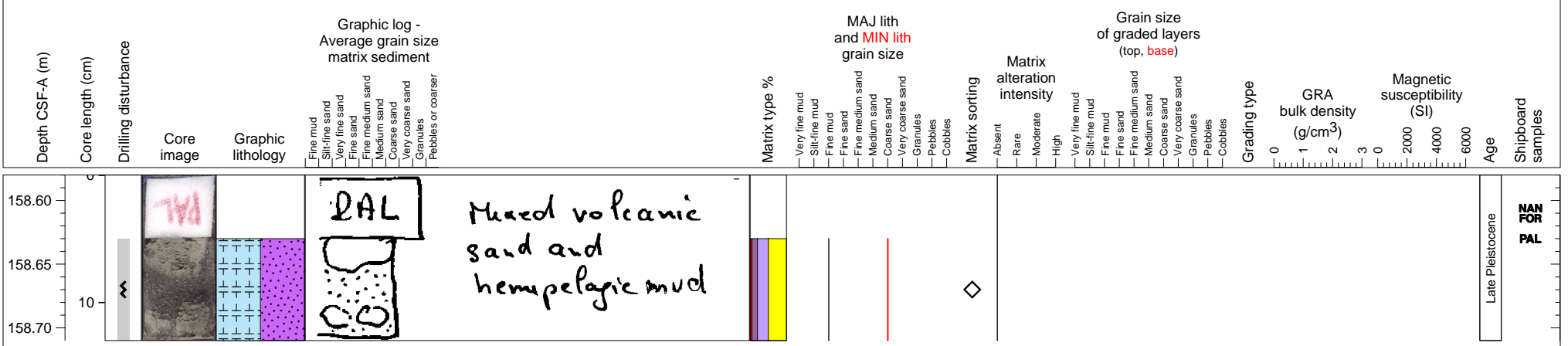


Late Pleistocene

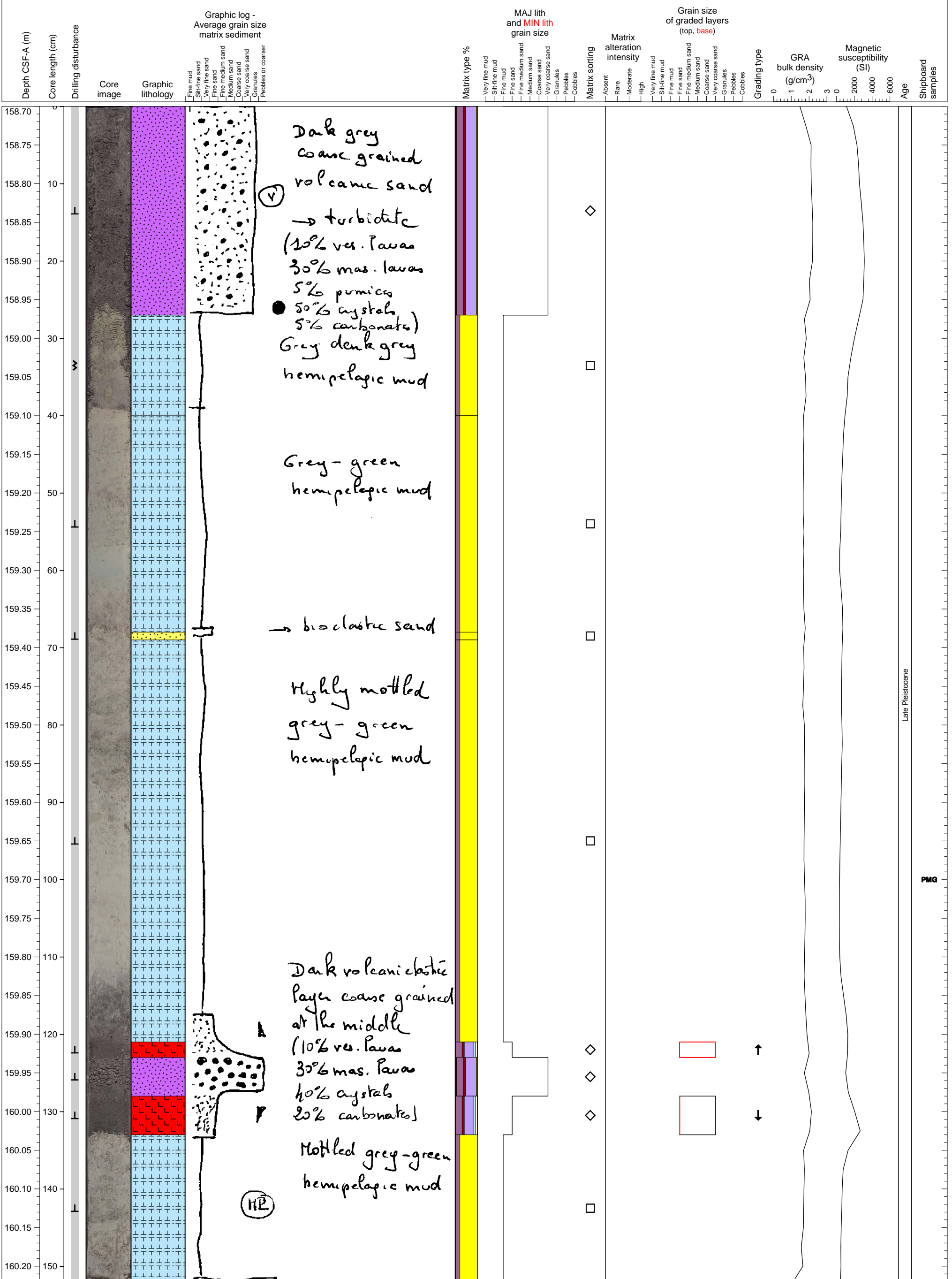
Part of a volcanoclastic turbidite



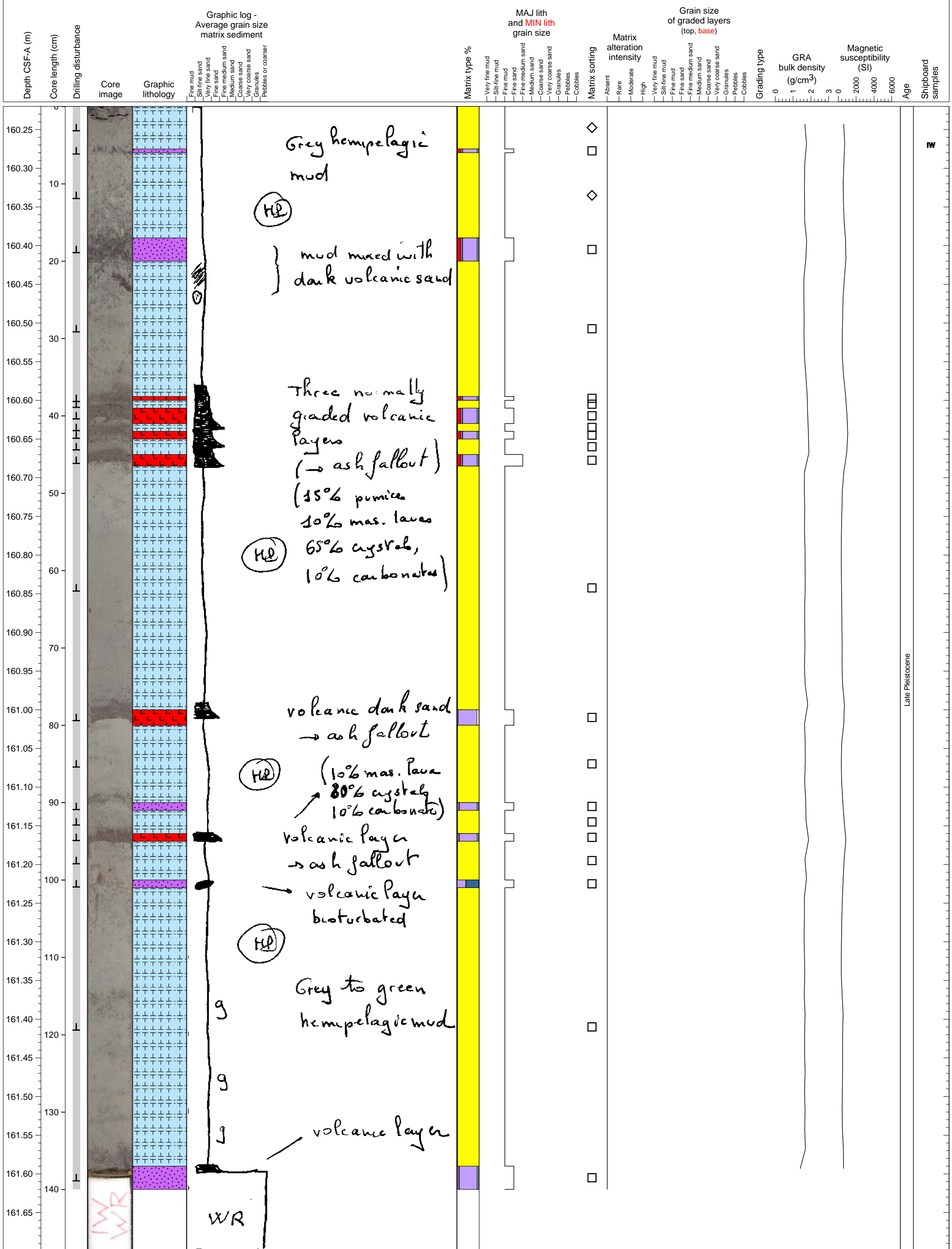
Mixture of hemipelagic sediment and volcanoclastic turbidite.



Hemipelagic sediment with three ash fall layers, two thick, one reverse then normally graded.



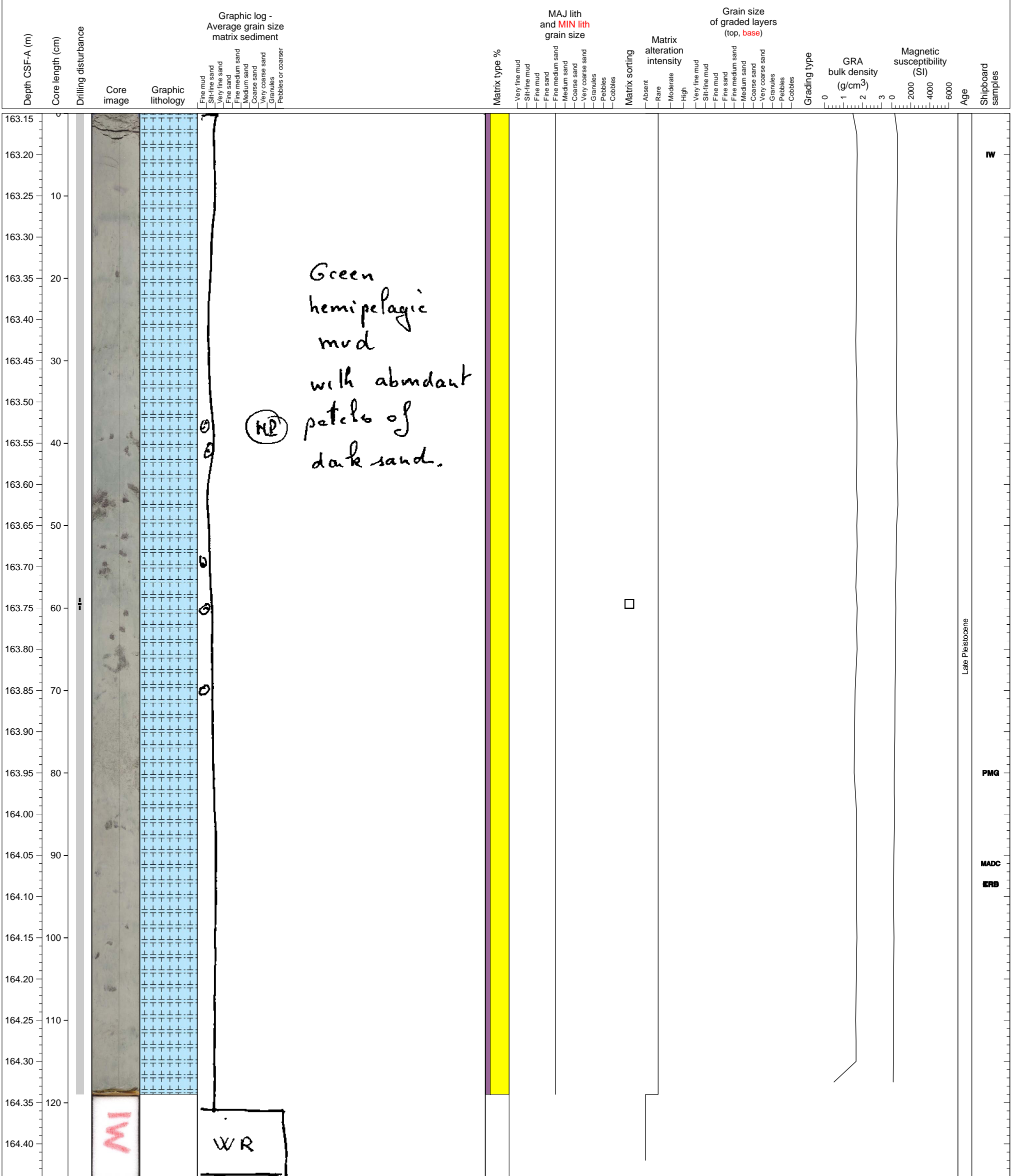
Hemipelagic fine sediment with possible 11 thin ashfall (or volcanoclastic sand) layers, bioturbated



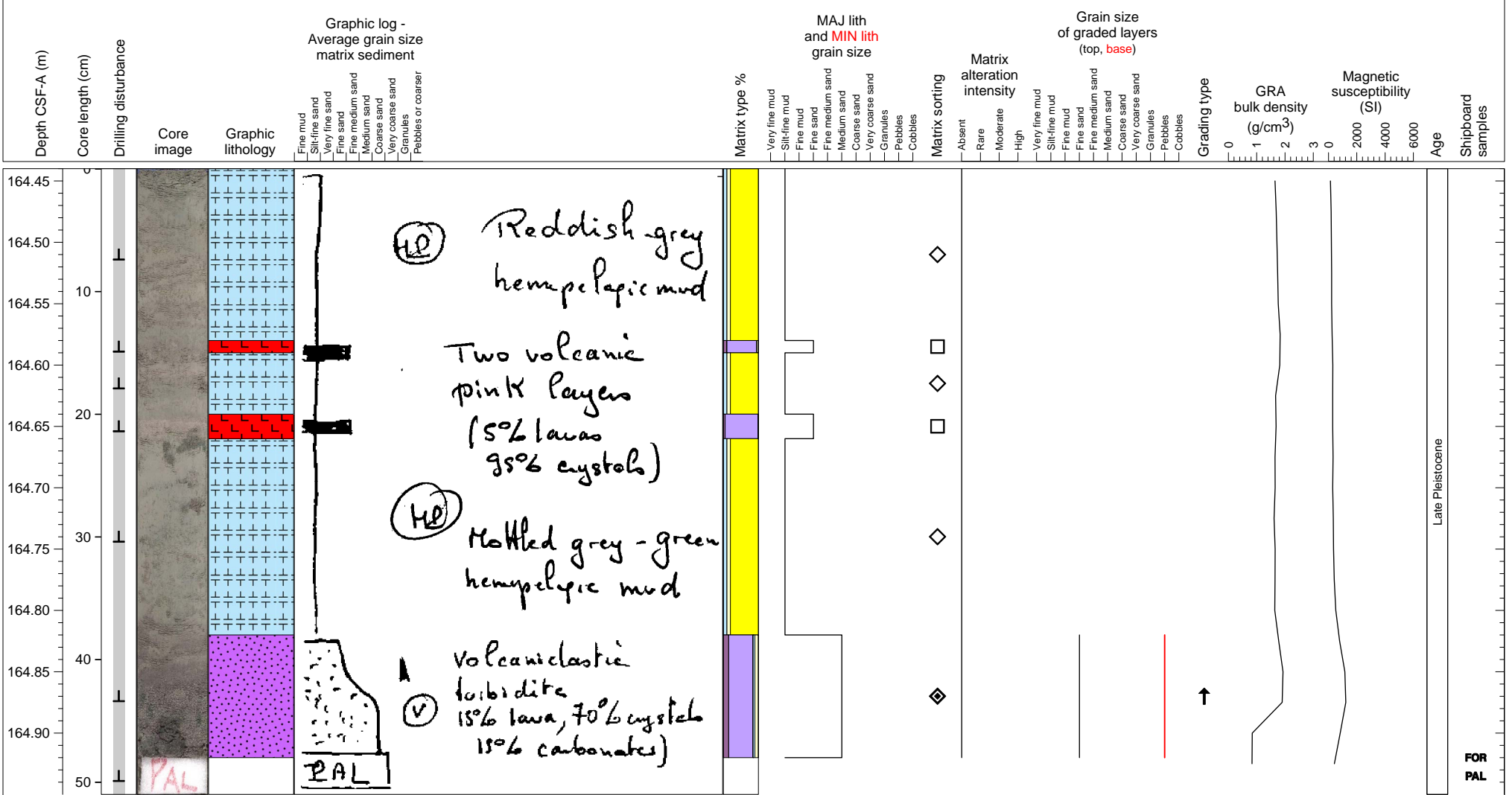
Intercalation of volcanoclastic turbidite and hemipelagic sediments



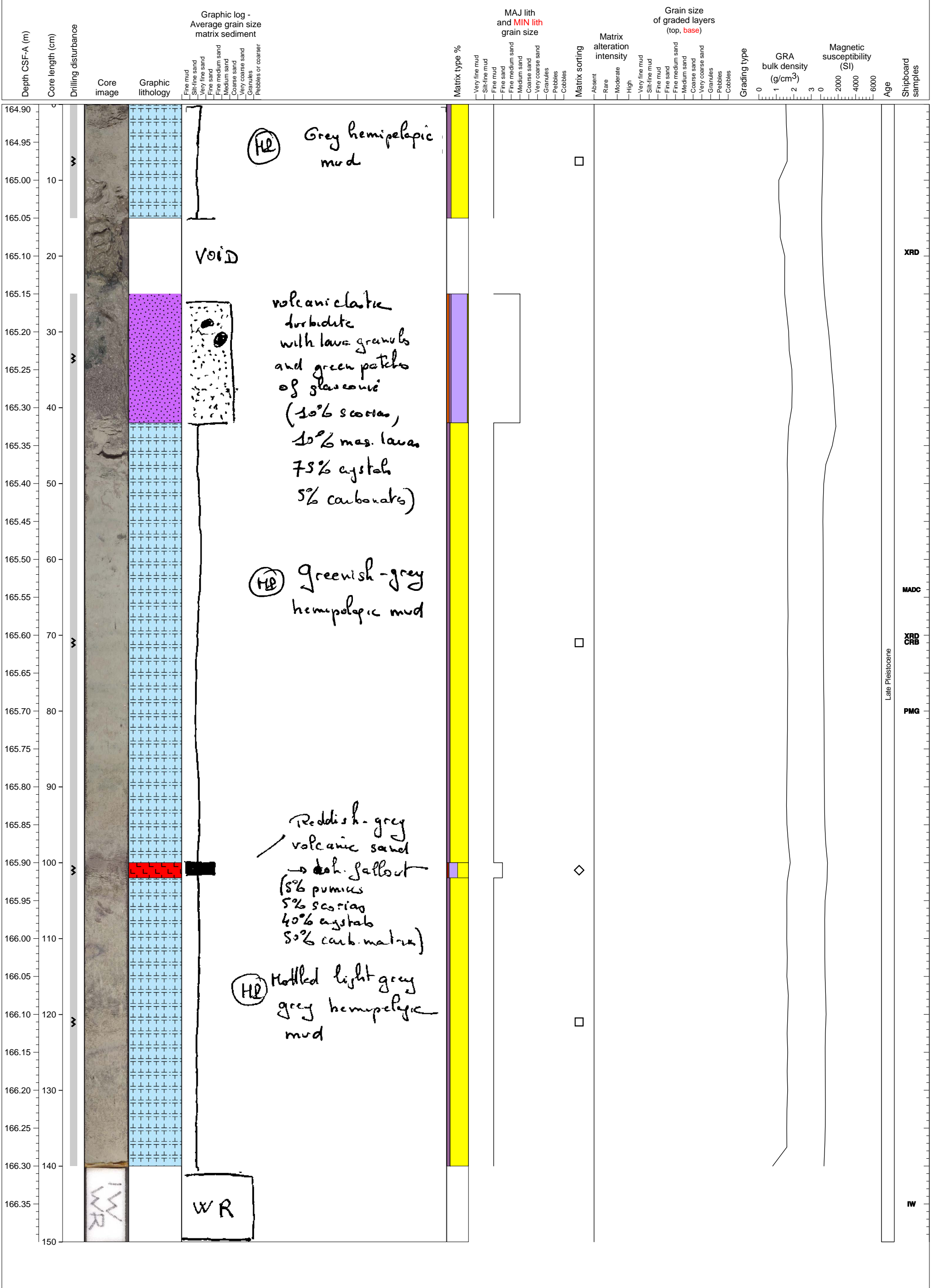
Hemipelagic sediment



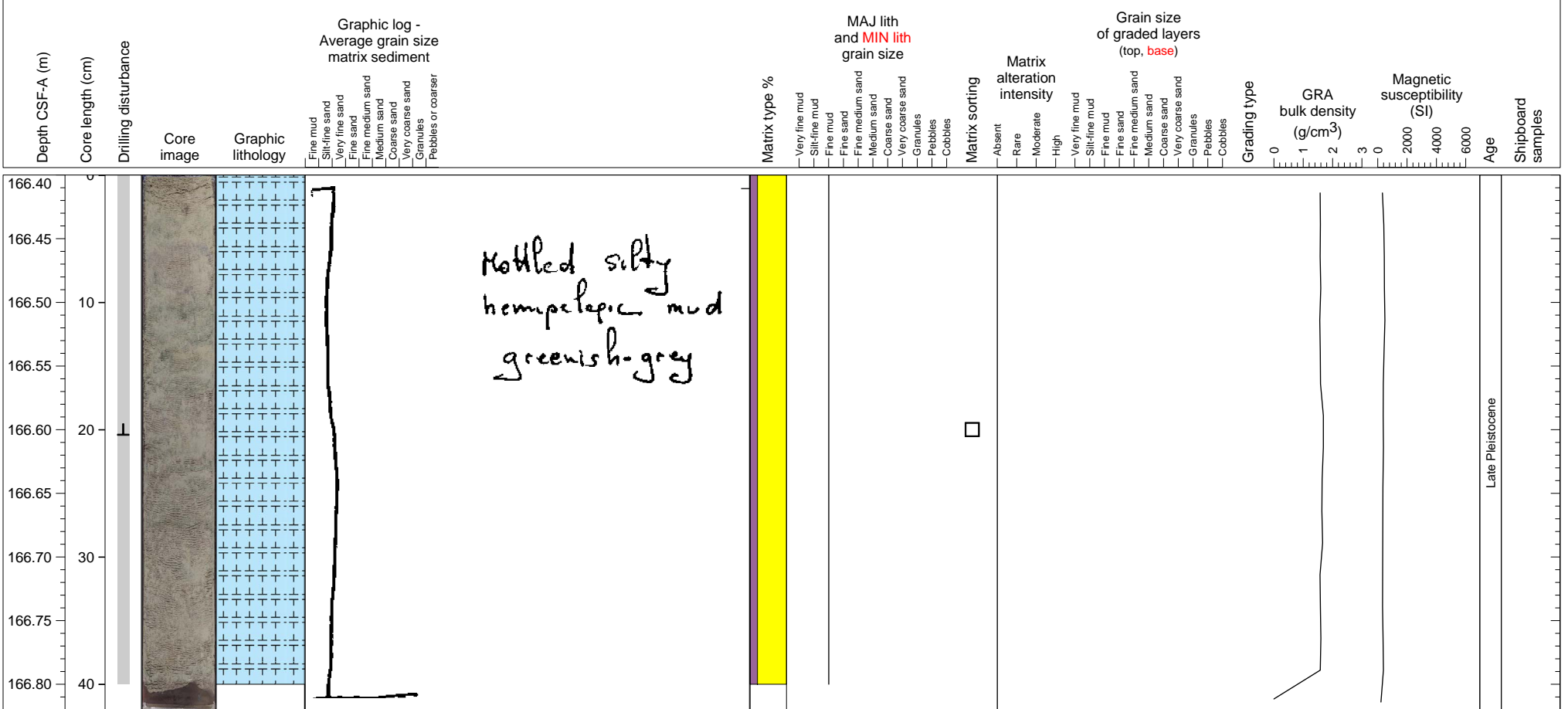
Hemipelagic sediments intercalated with volcanoclastic turbidite and several volcanic ash layers



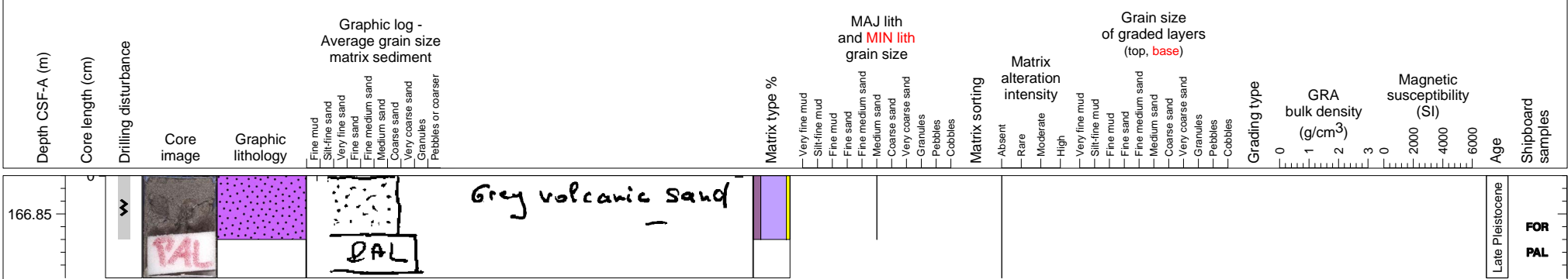
Hemipelagic sediment with a thin volcanoclastic turbidite and a thin ash layer.



Hemipelagic sediment

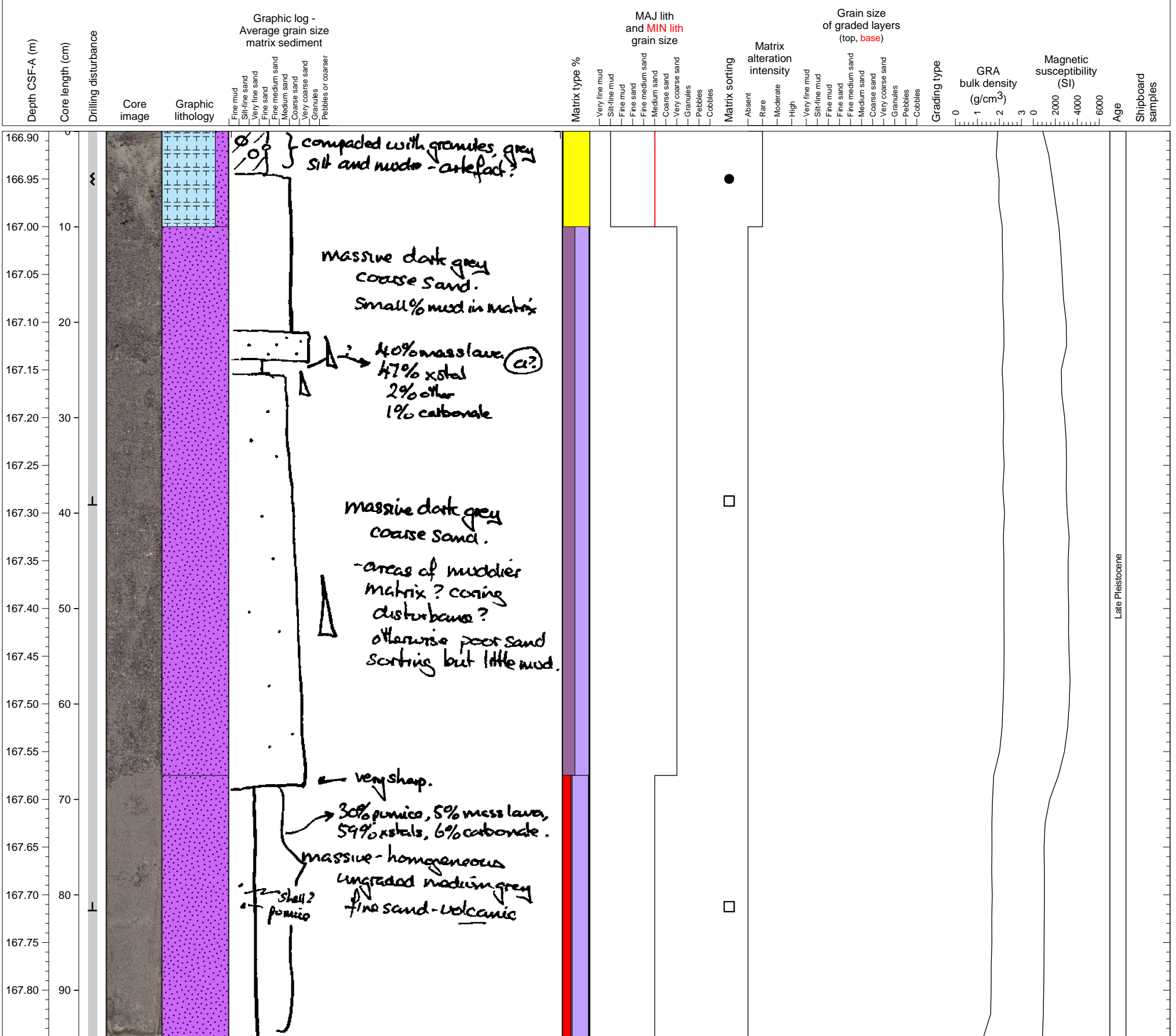


Volcaniclastic turbidite

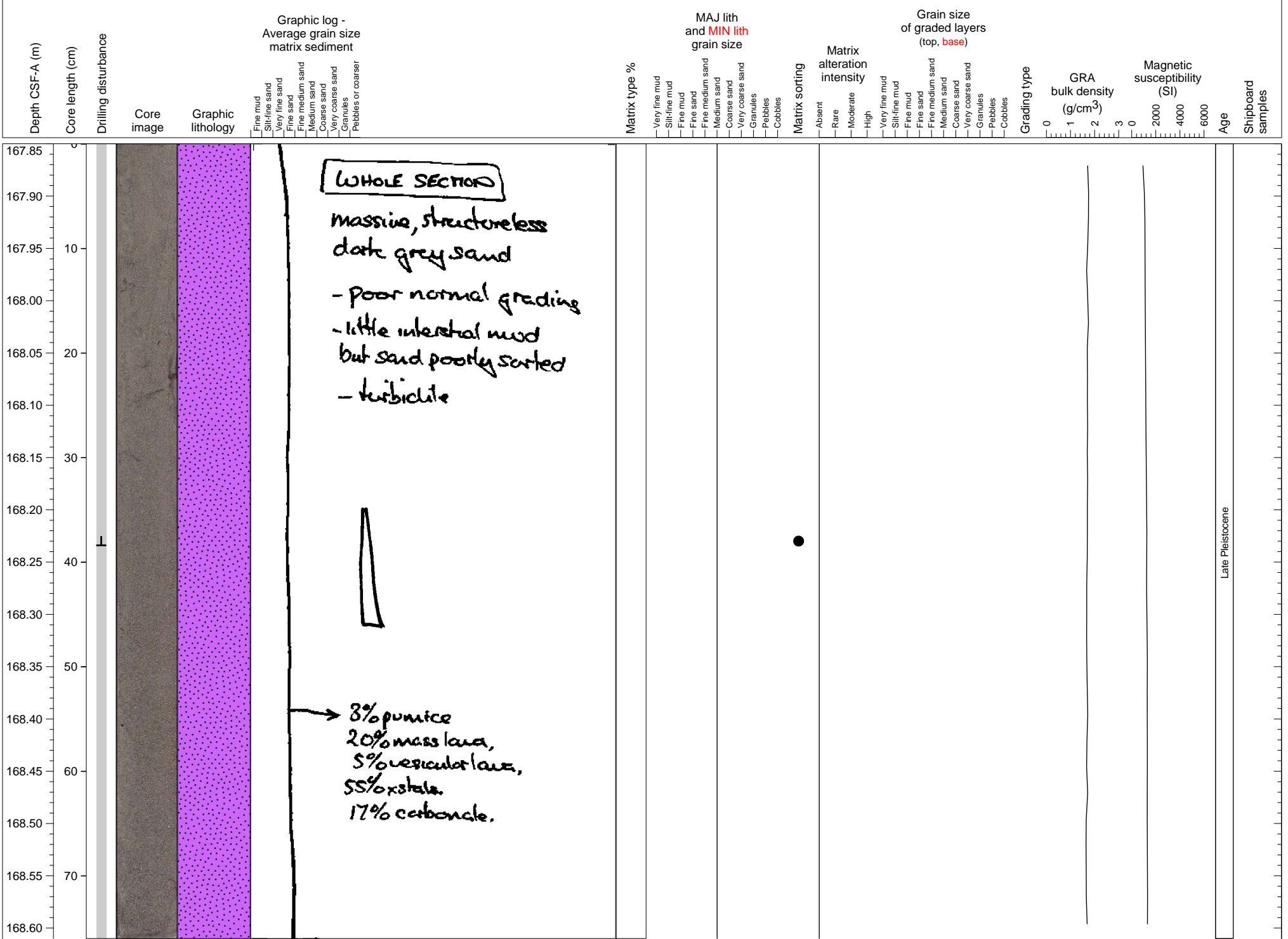


Late Pleistocene
FOR
PAL

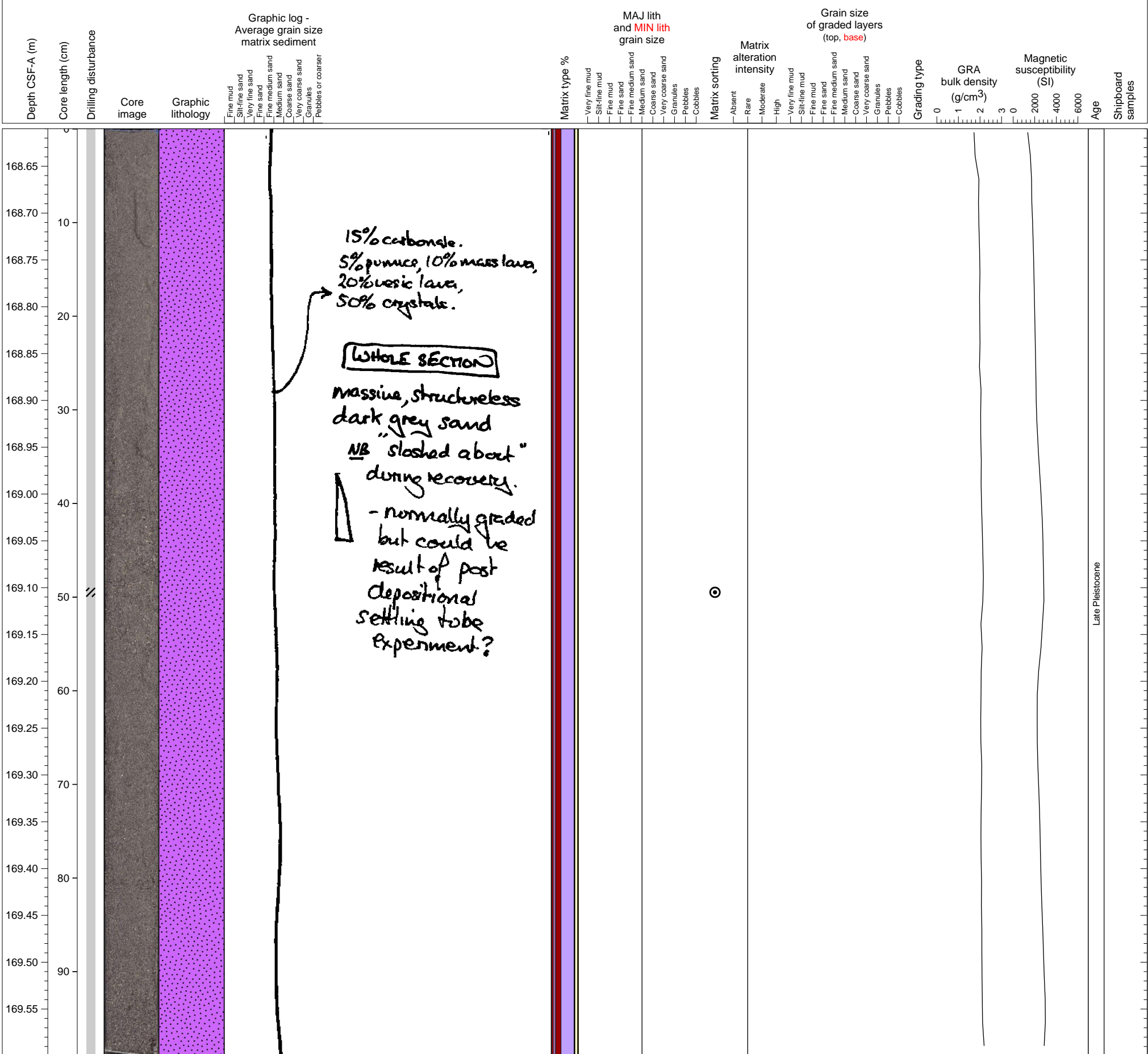
Two massive volcanic sand layers.



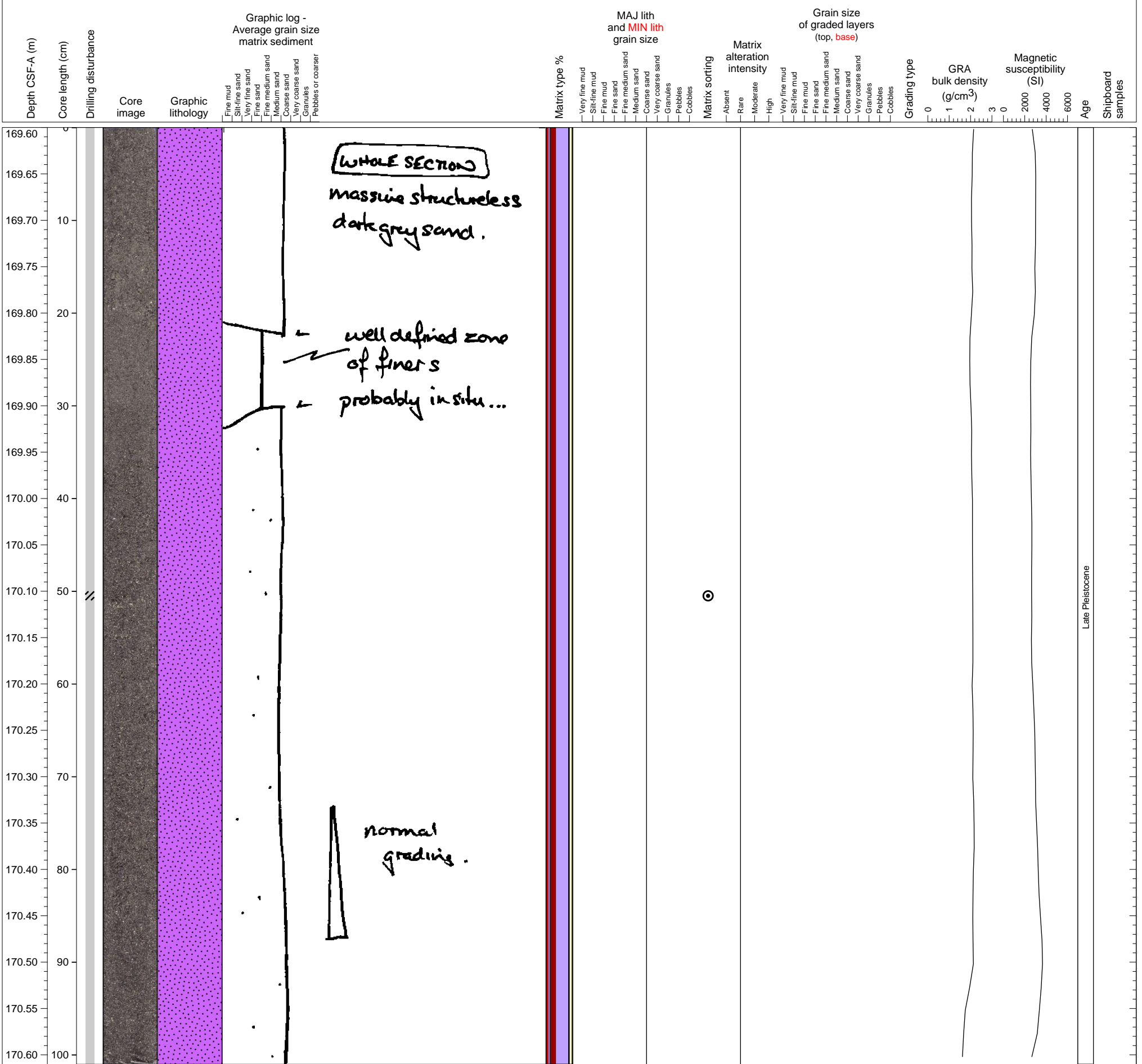
Massive volcanoclastic sand.



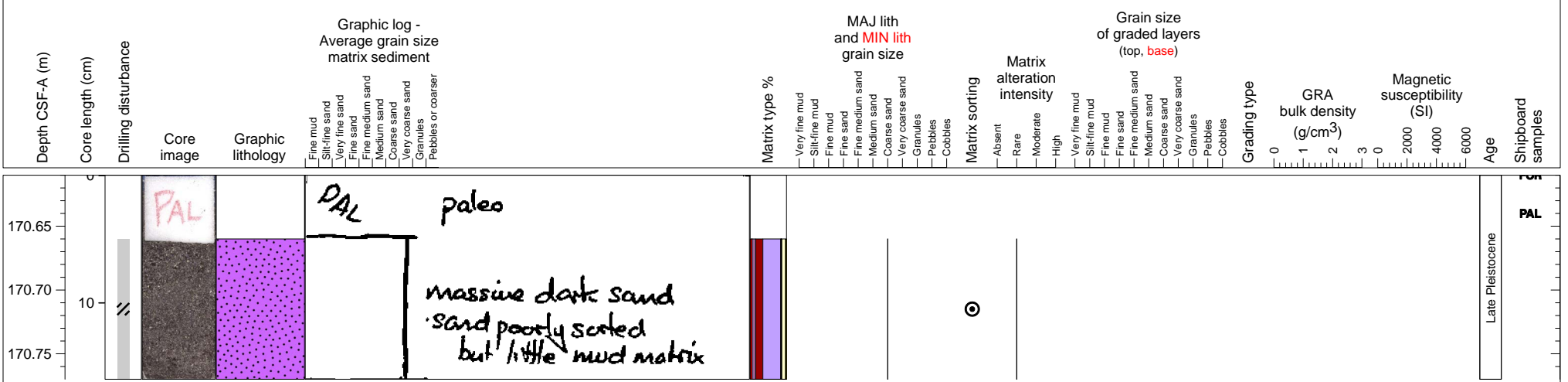
Medium-grained volcanoclastic sand.



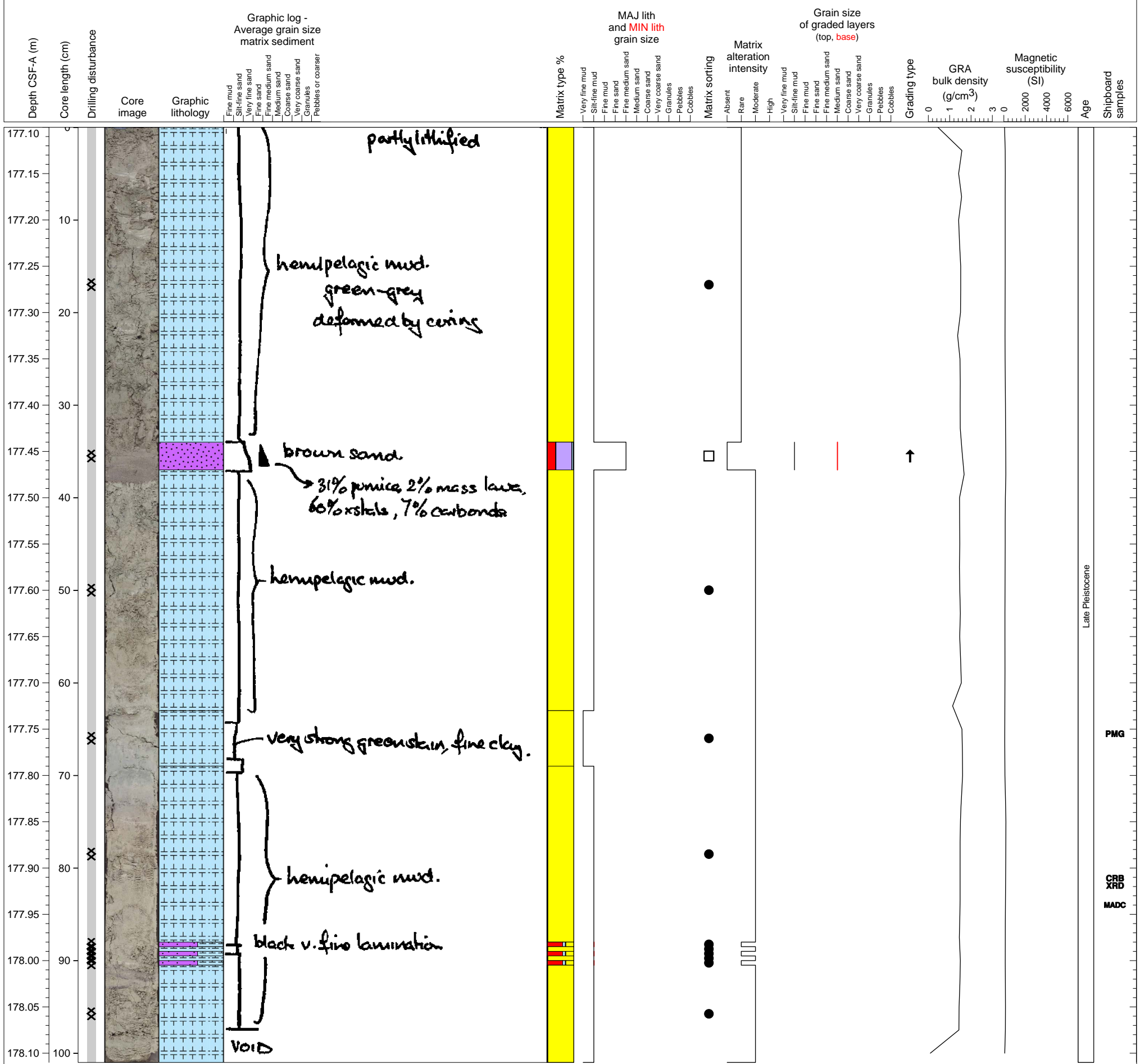
Coarse-grained volcanoclastic sand.



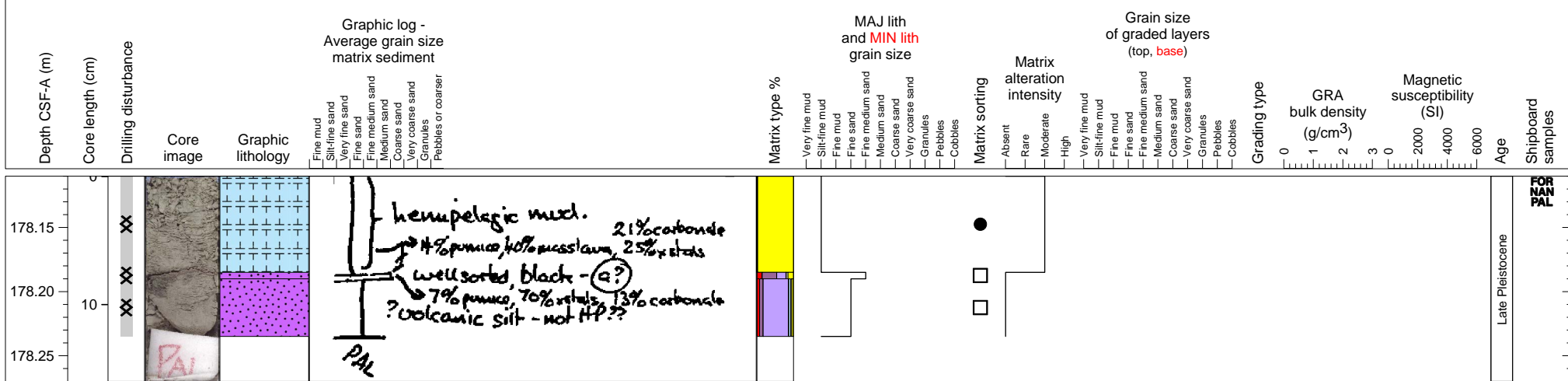
Coarse-grained volcanoclastic sand. PAL from top of section.



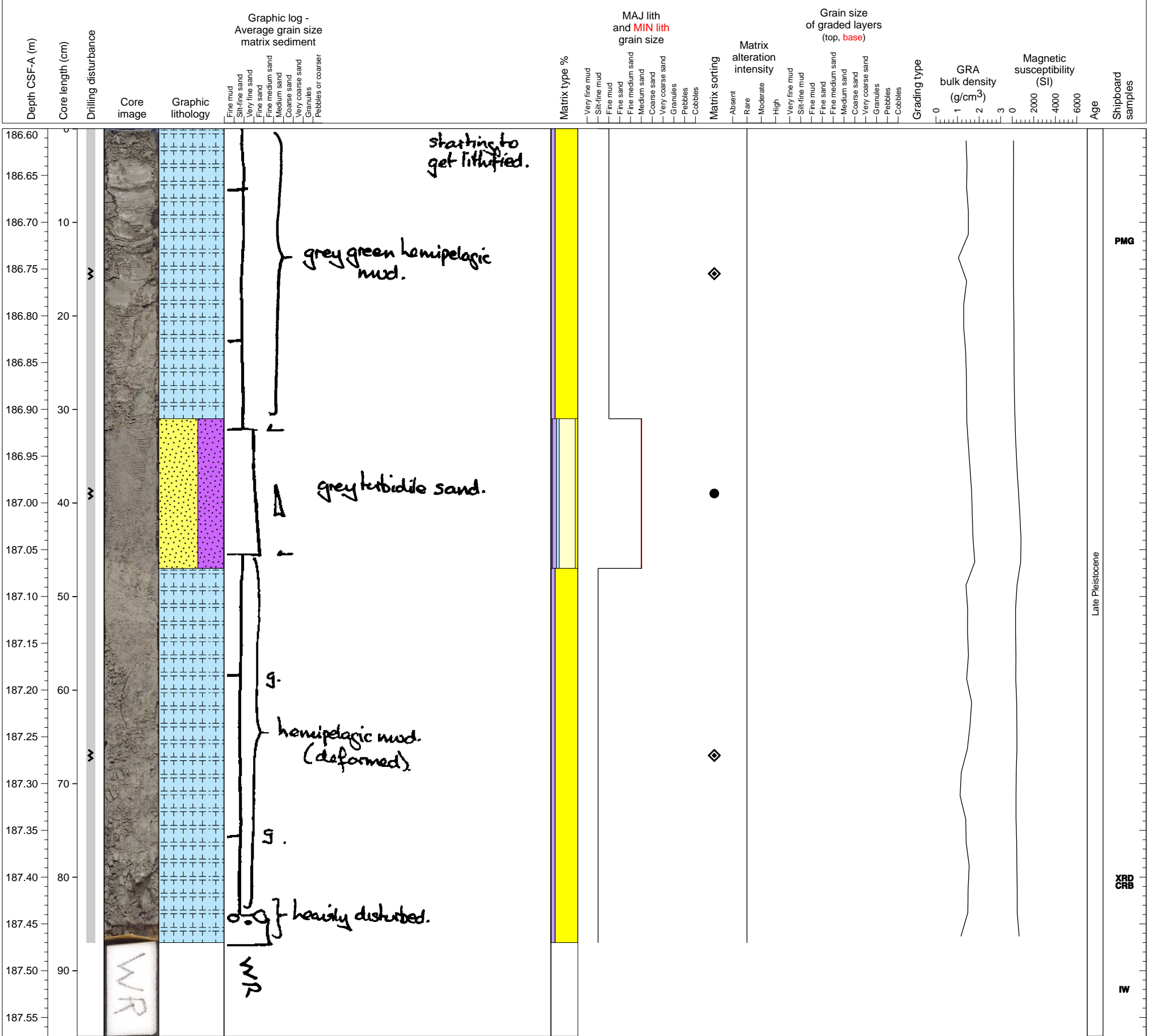
Hemipelagic clay intercalating at least one tephra layer.



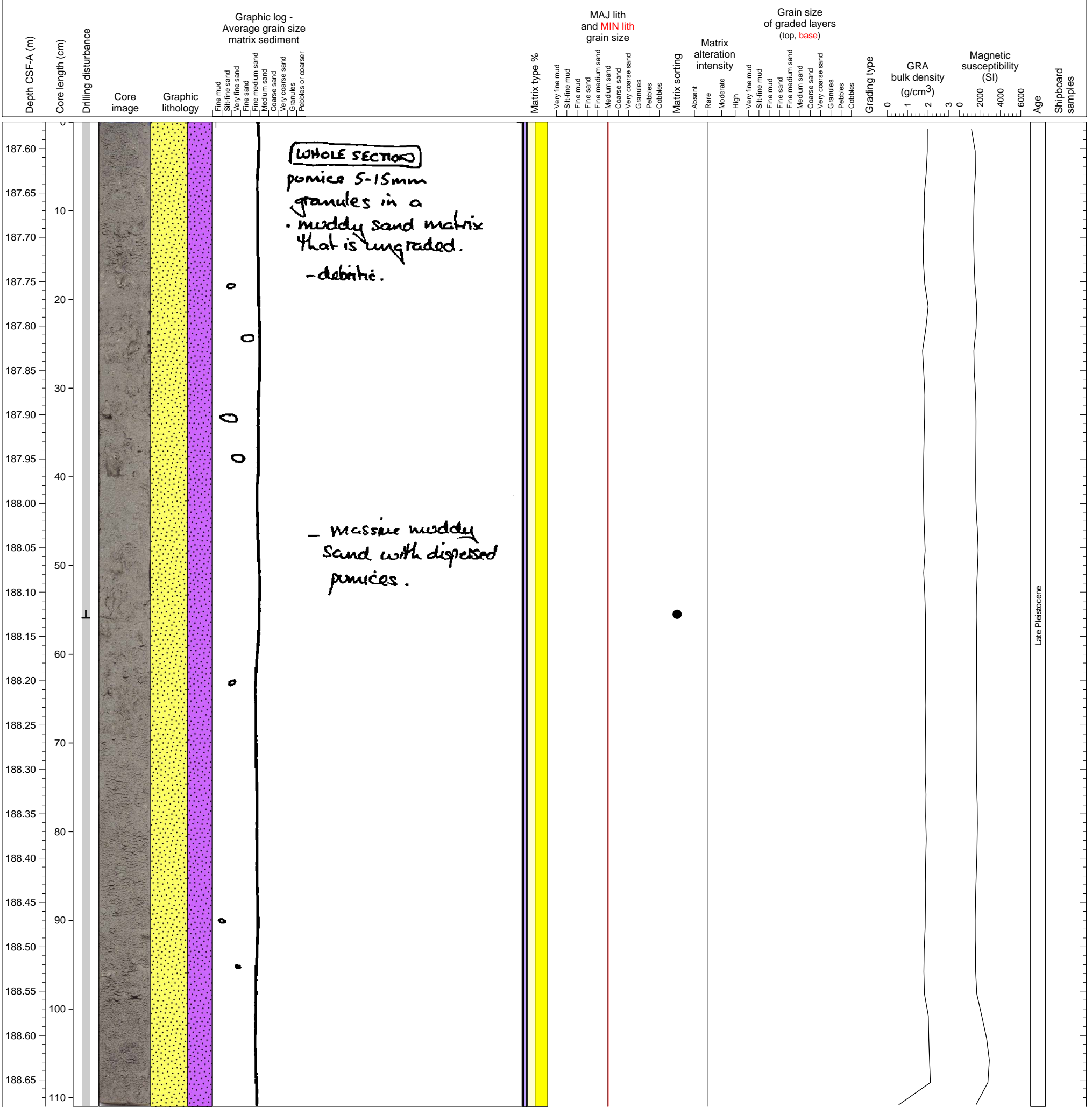
Hemipelagic clay and volcanoclastic sand layers.



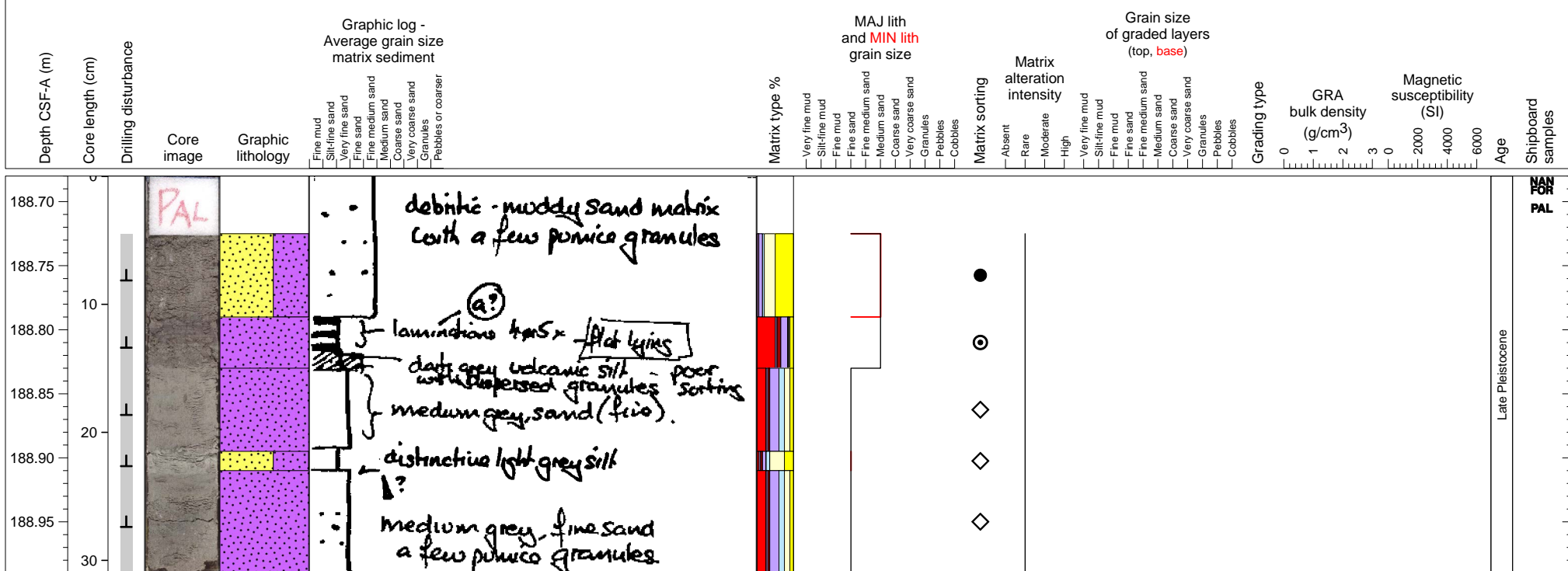
Hemipelagic mudstone, with one grey sand.



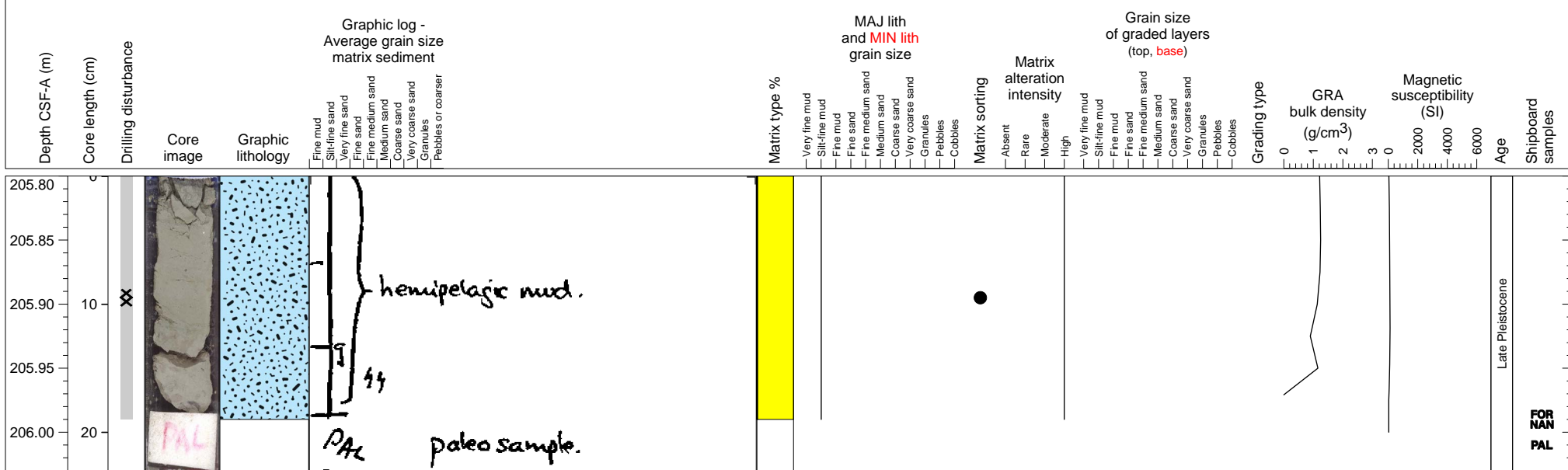
Medium-grained volcanoclastic/bioclastic mixed sand.



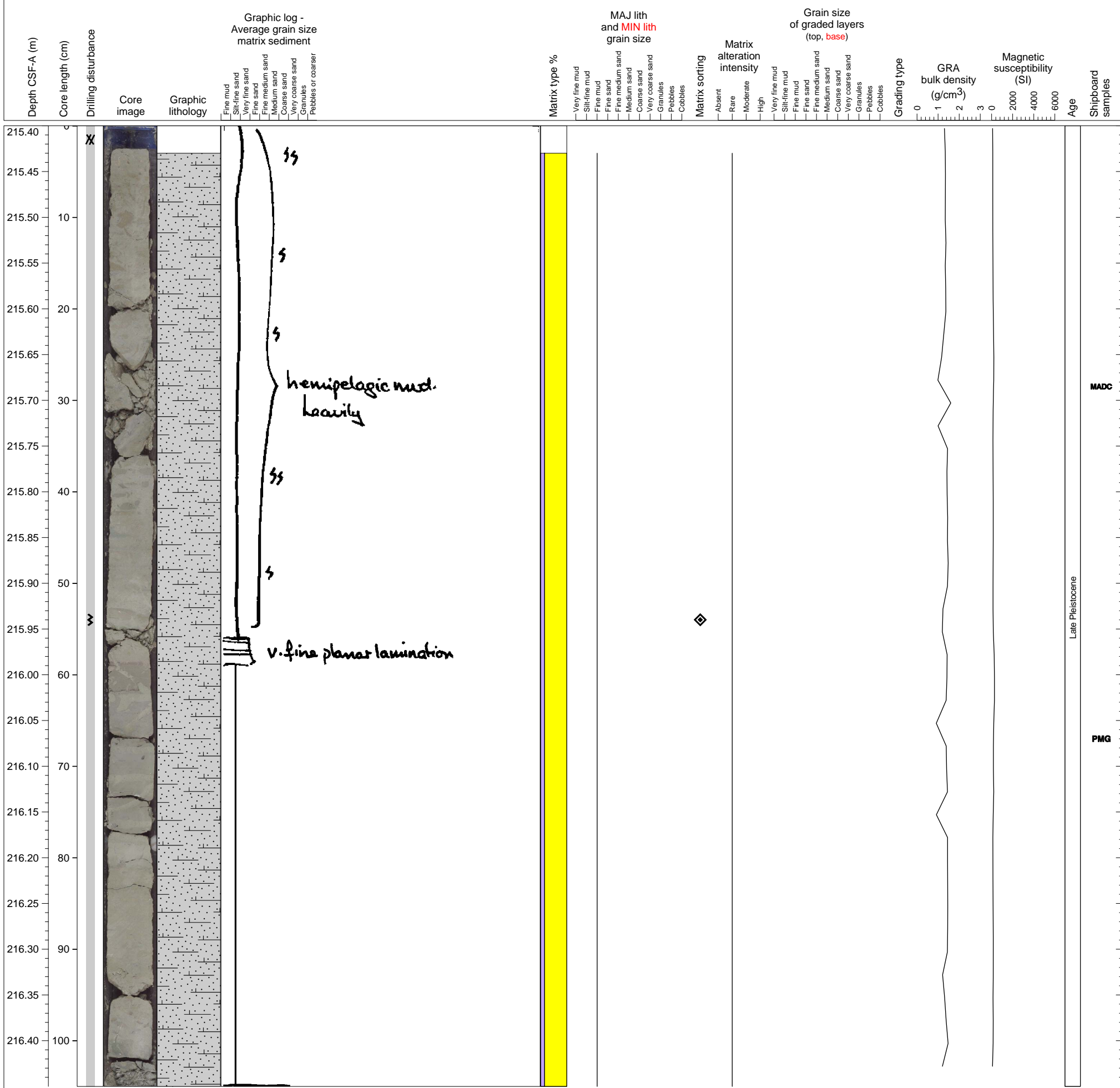
Mixed volcanoclastic/bioclastic sand interlayered with fine-grained volcanoclastic sand. PAL sample from section top.



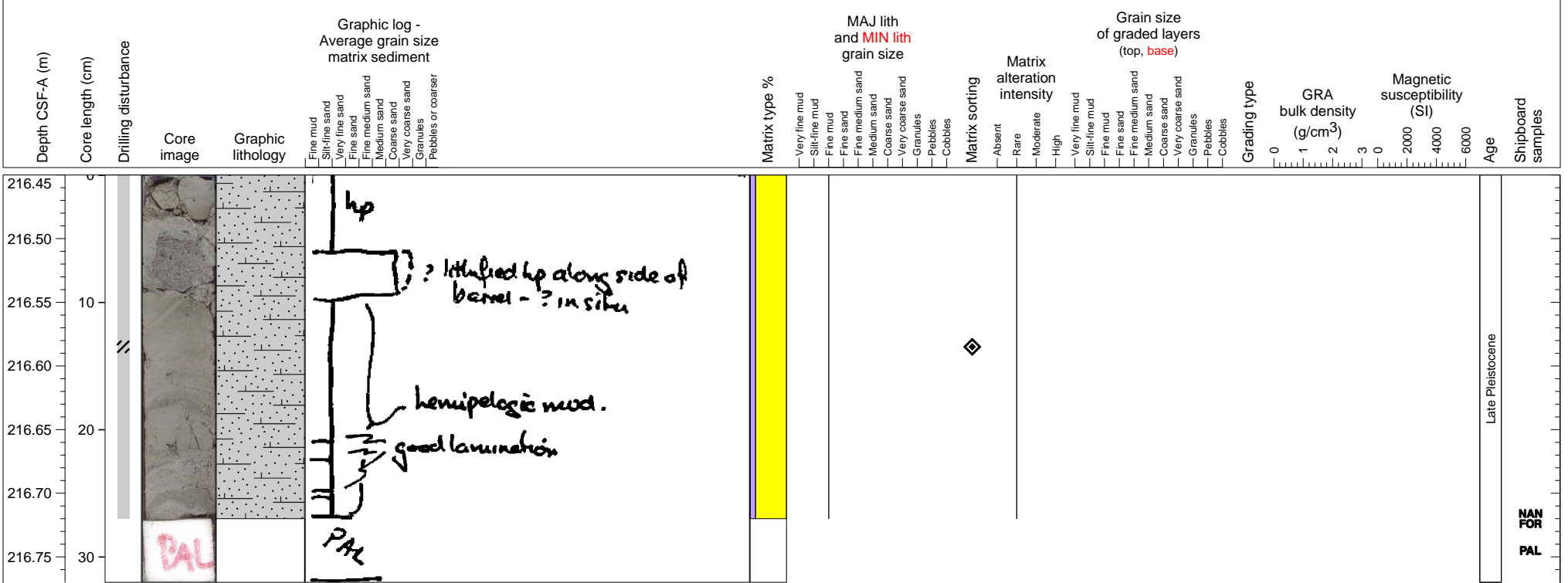
Partially lithified hemipelagic clay.



Mudstone (partially lithified hemipelagic clay) with heavy bioturbation.



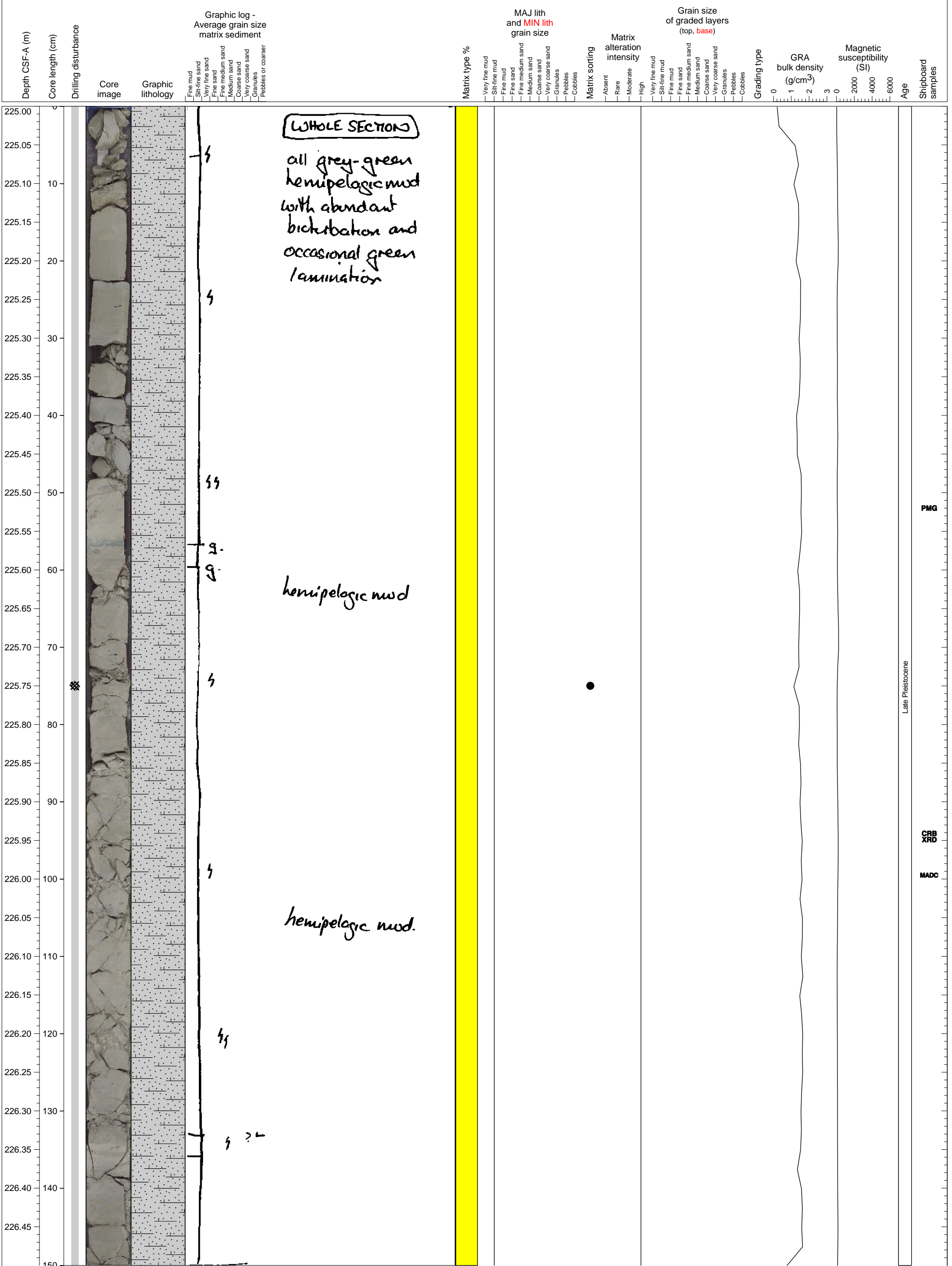
Mudstone (partially lithified hemipelagic clay) with high bioturbation.



Late Pleistocene

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Lithified heavily bioturbated hemipelagic clay with a lot burrows.



WHOLE SECTION

all grey-green hemipelagic mud with abundant bioturbation and occasional green lamination

hemipelagic mud

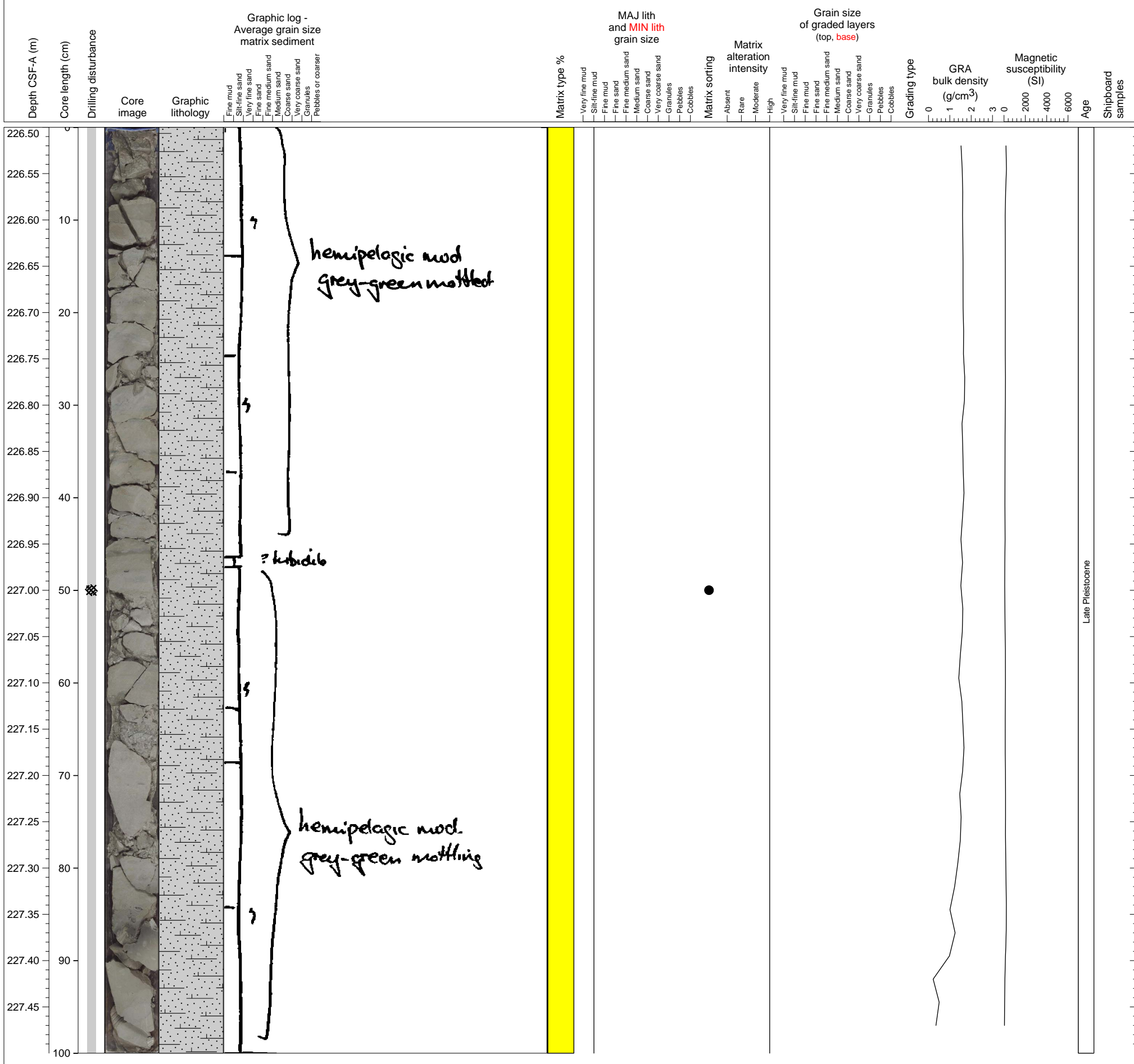
hemipelagic mud.

Late Pleistocene

CRB XRD

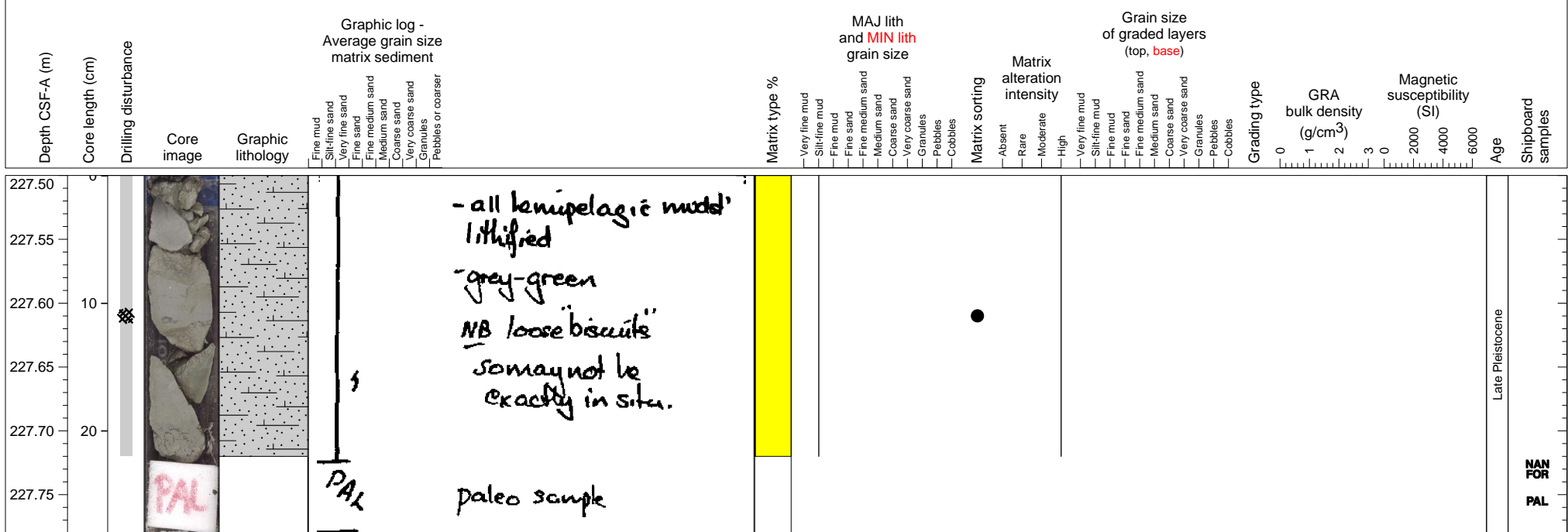
MADC

Lithified heavily bioturbated hemipelagic clay.

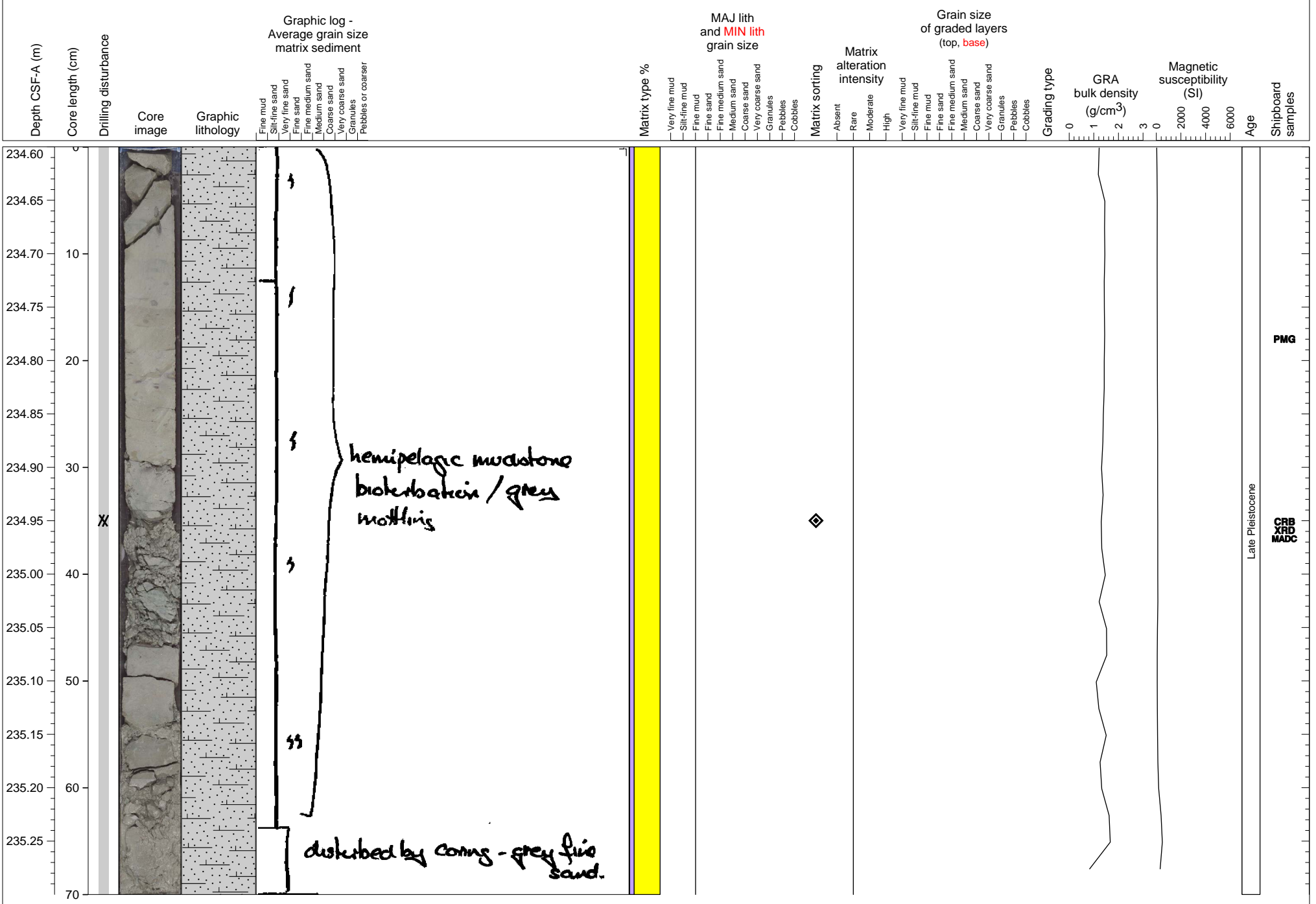


Late Pleistocene

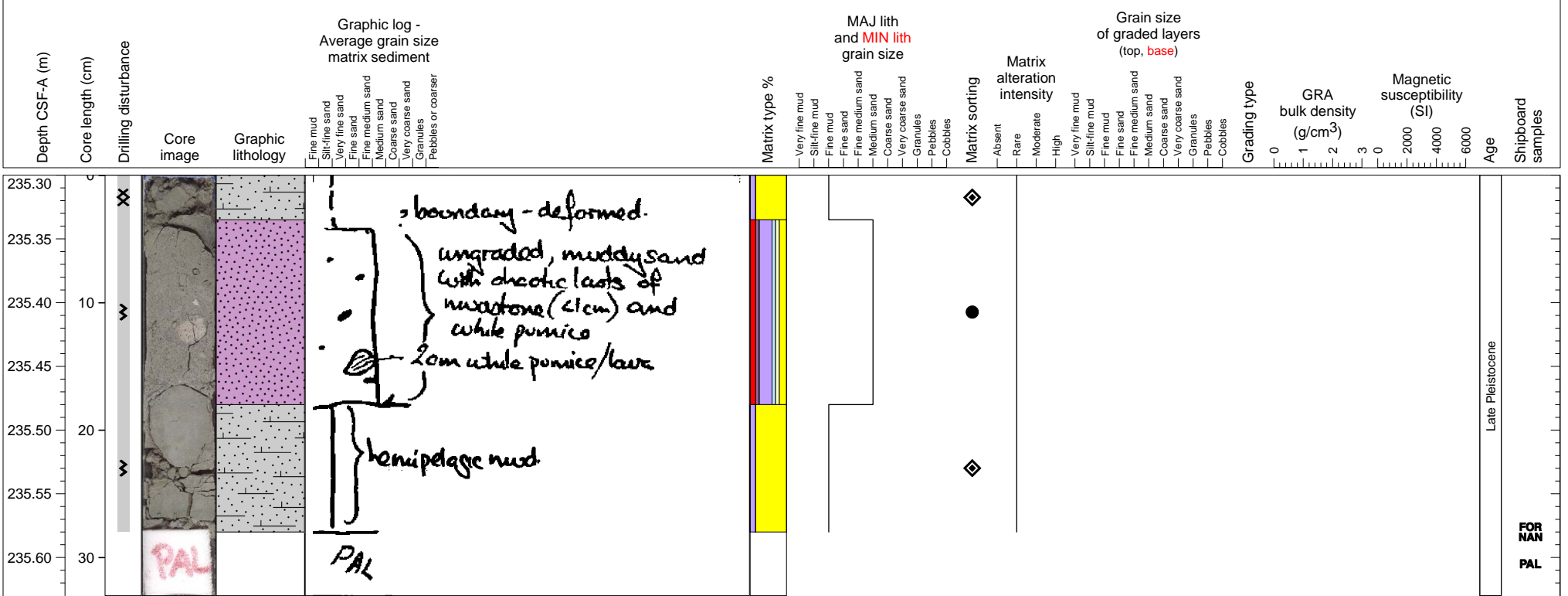
Lithified heavily bioturbated hemipelagic clay.



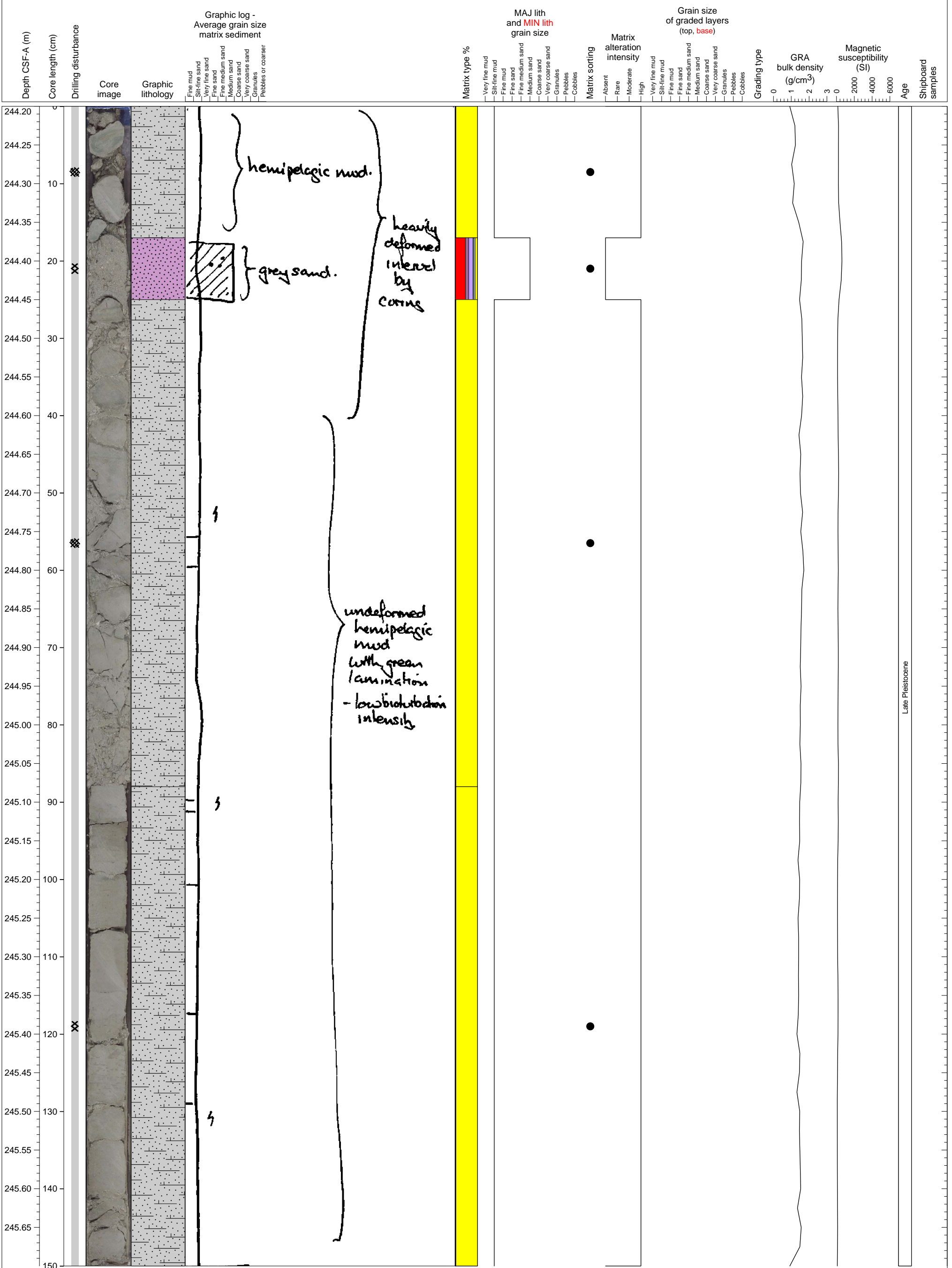
Mudstone (partially lithified hemipelagic clay) with heavy bioturbation.



Mudstone interlayered with a volcanoclastic sandstone. PAL section from base.

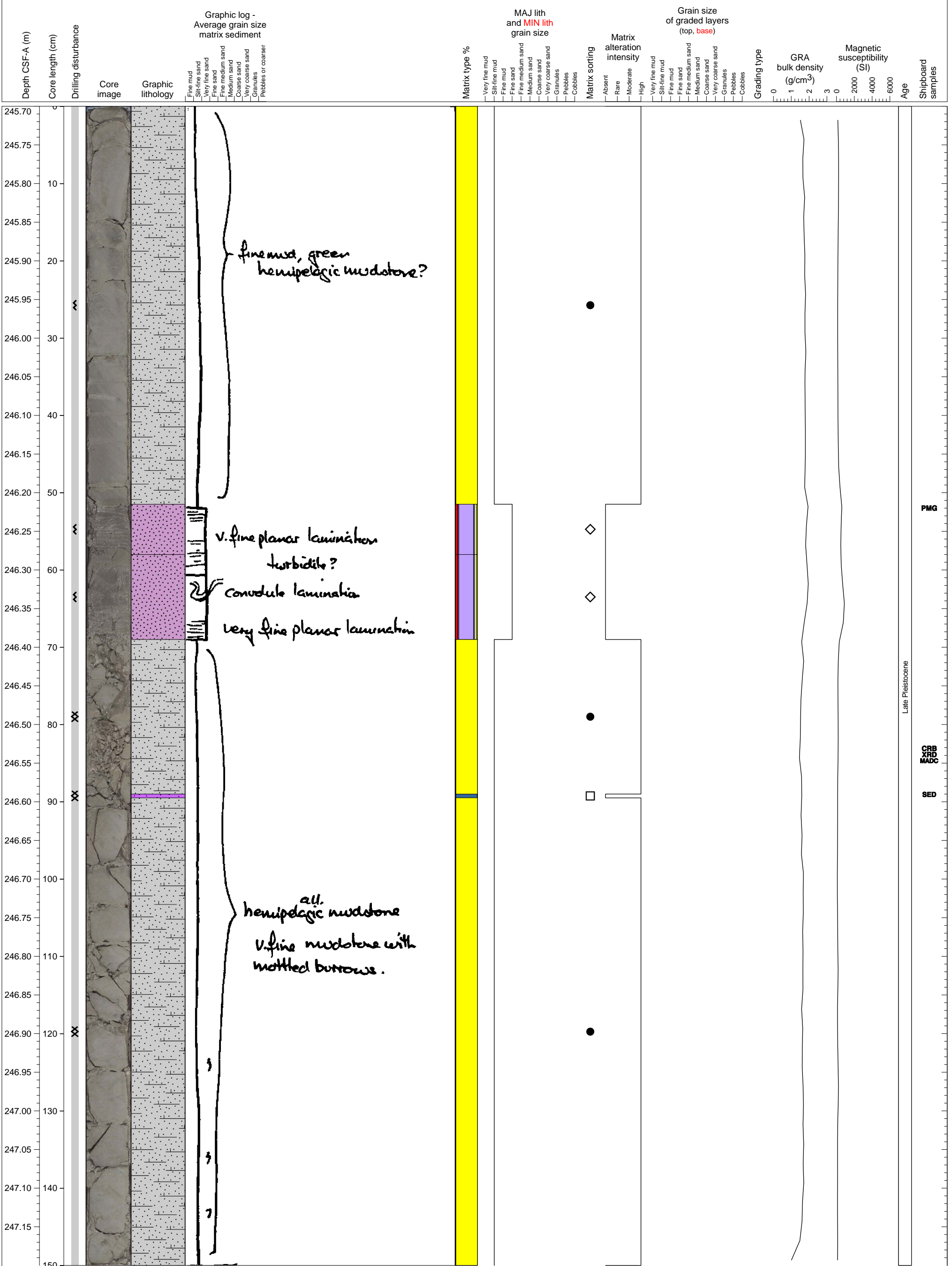


Lithified heavily bioturbated hemipelagic clay interlayered with a massive volcanoclastic sandstone.

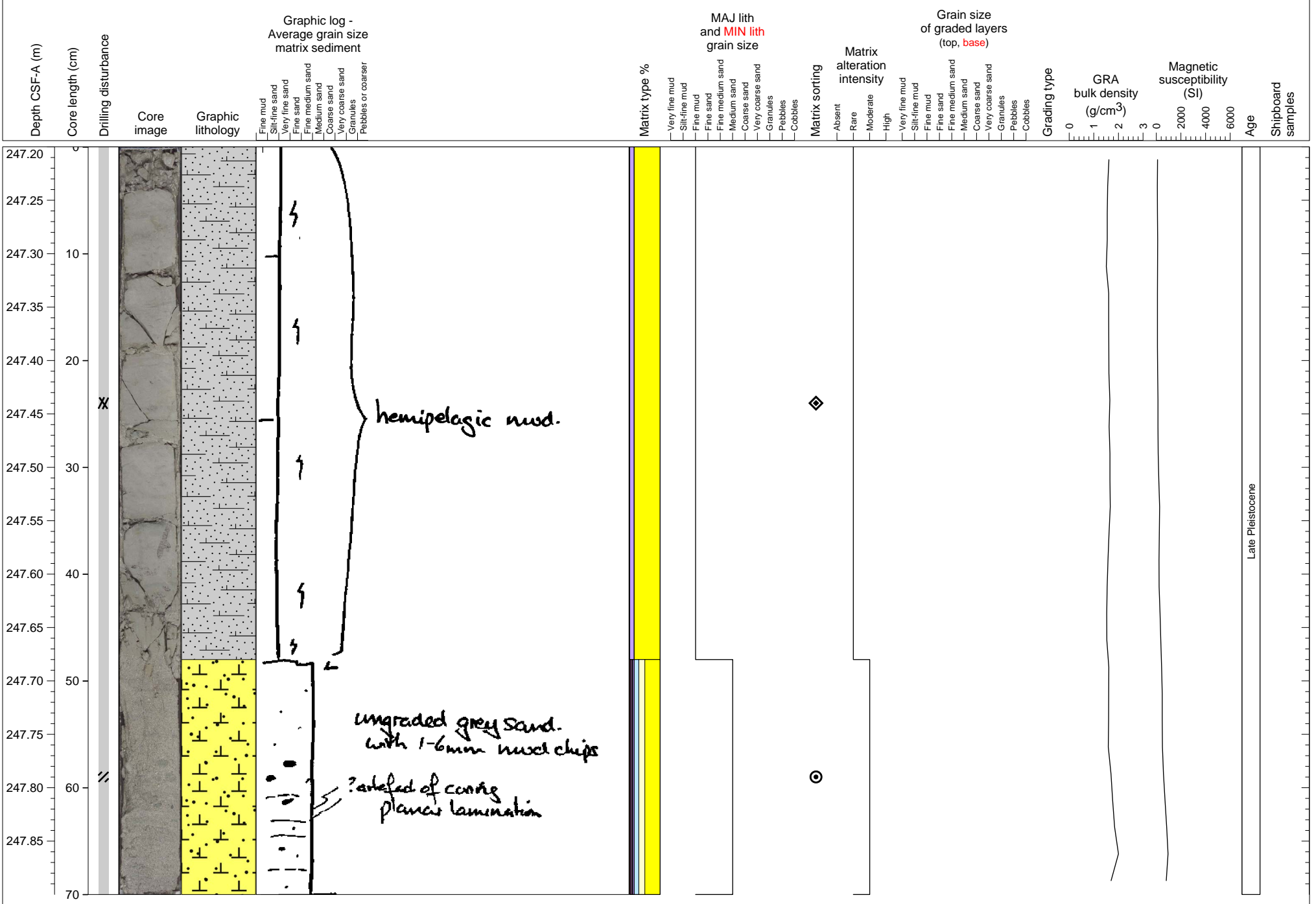


Late Pleistocene

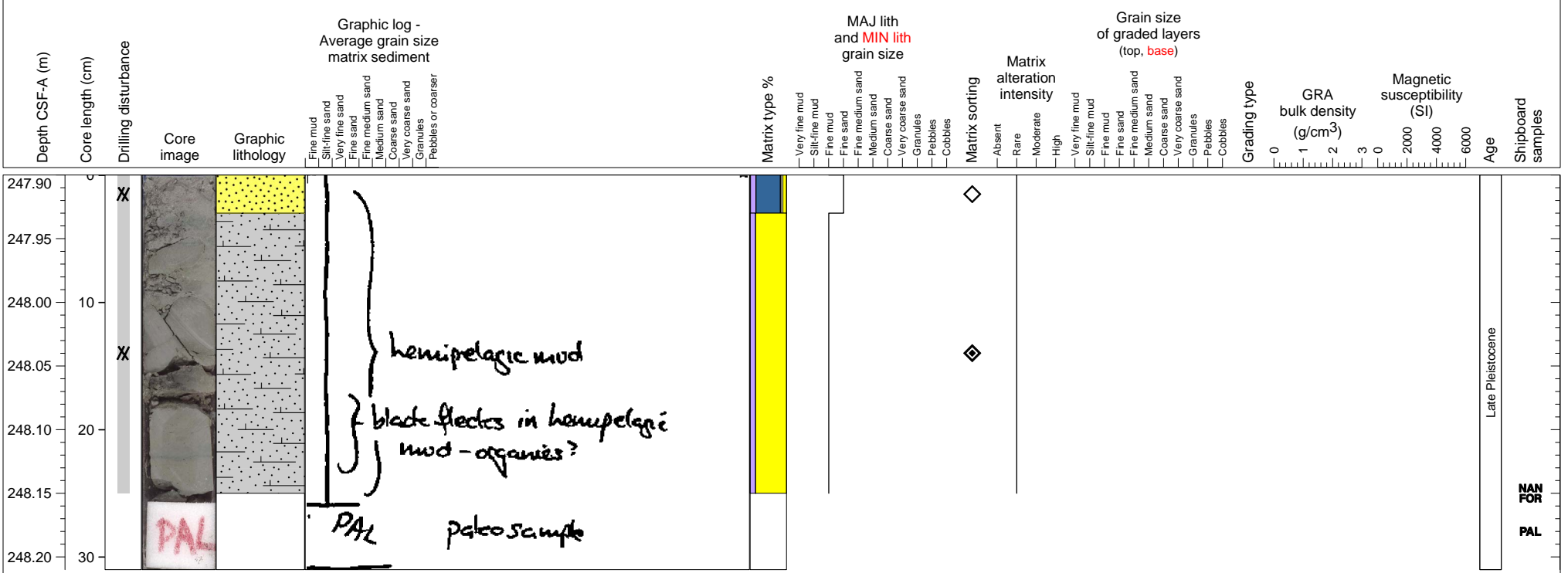
Lithified heavily bioturbated hemipelagic clay interlayered with volcanoclastic sandstone characterized by thin stratified and cross-stratified lamination. At 89 cm, white colored marker ash appear only in working half.



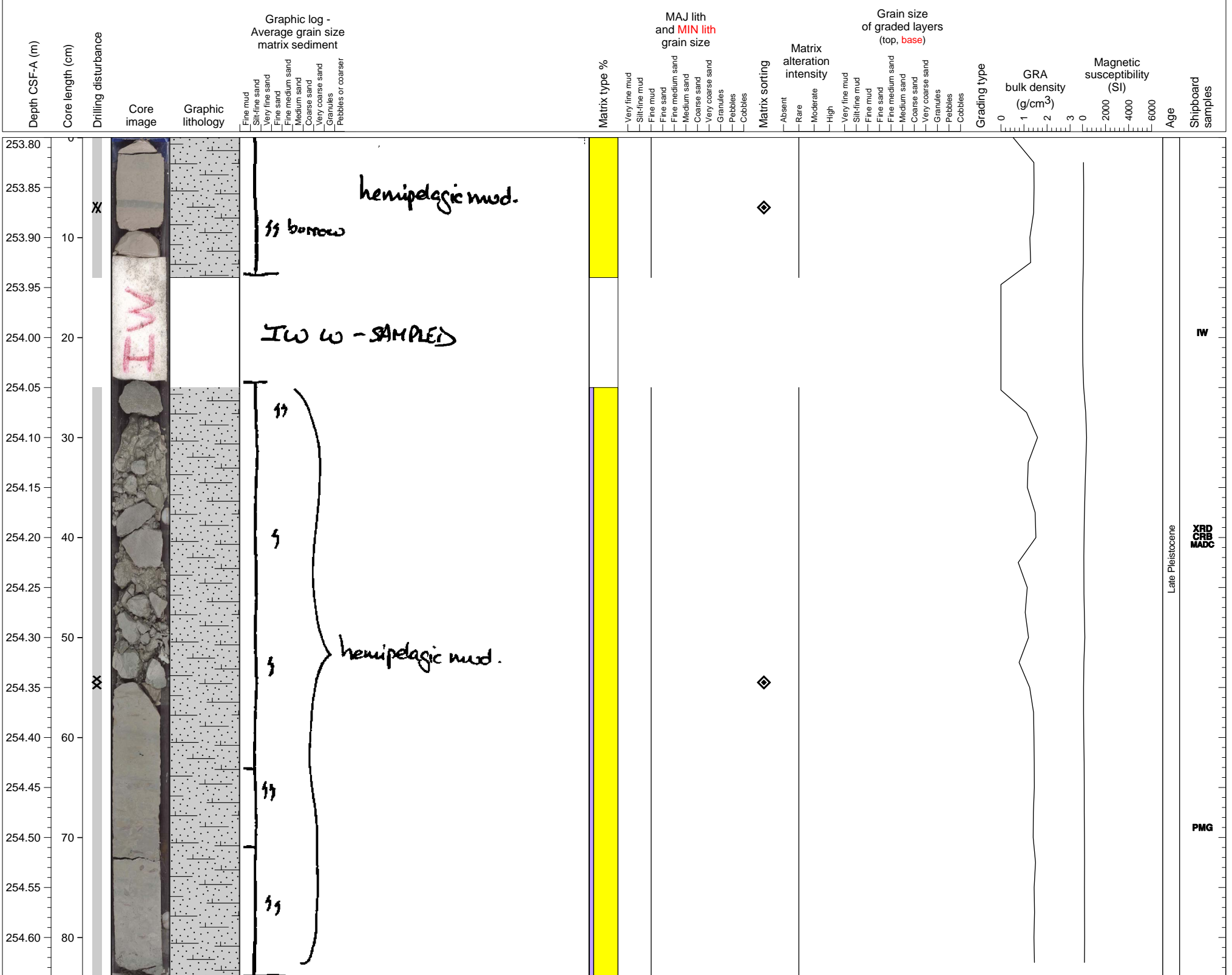
Heavily bioturbated mudstone overlying calcareous sandstone.



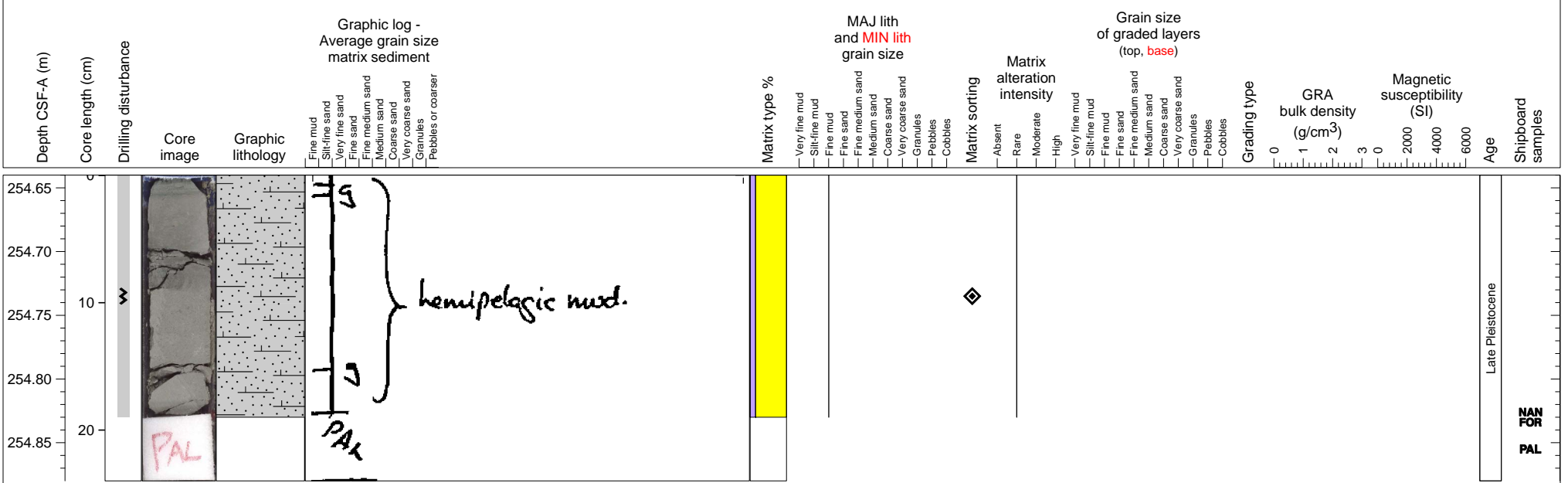
Heavily bioturbated mudstone with a fine calcareous sand sediment overlying it. PAL sample from base of section.



Heavily bioturbated mudstone with IW taken from center of section.



Heavily bioturbated mudstone. PAL sample from section base.



Late Pleistocene

NAN FOR PAL