

One mile above Edwards Bridge (which is just on the western edge of the Ayden quadrangle) the Peedee strata show a slight variation from the usual lithologic character. The section is as follows:

SECTION 1 MILE ABOVE EDWARDS BRIDGE, LEFT BANK.

Pleistocene:

FEET.

Loam and sand with thin gravel band at base, rusty brown in lower 2 feet.....	6
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(Unconformity.)

Cretaceous (Peedee sand):

Coarse, very green, very glauconitic sand with a mealy texture, containing the highest percentage of glauconite of any of the greensands observed in the State.....	4
Layer of concretions of all sizes up to several inches in diameter, consisting of greensand cemented with lime.....	1
Dark brownish, argillaceous, glauconitic sand.....	3

Between here and Edwards Bridge the greensand appears in several low exposures. Below Edwards Bridge nothing was seen until milepost 7 was reached, between which point and Grifton the greensands and clays of the Peedee appear at a number of places rising not more than 6 or 7 feet above the water.

At milepost 6, left bank, $1\frac{1}{2}$ miles above Grifton, *Ostrea subspatulata* Forbes and *Exogyra costata* Say were collected from upper Peedee beds. (U. S. G. S. Locality No. 4153.)

The most northerly occurrence of the Peedee formation is at Greenville, in Pitt County. Although no surface exposures have been seen by those who have recently worked in that vicinity, the existence of the beds there are known from an account given by Conrad in 1871.¹ He describes the occurrence of the characteristic fossil *Belemnitella americana* Morton in Cretaceous sand in the bottom of a marl pit beneath a Miocene shell bed. From this account it is reasonably certain that in places at least in the vicinity the Peedee beds are present at no great depth beneath the surface.

South of Cape Fear River valley the only surface occurrence of Peedee strata known within the State is on the north shore of Waccamaw Lake in Columbus County. To the east of the pumping station of the Atlantic Coast Line Railroad a low bluff is formed by the outcrop of an indurated layer of Miocene shell marl or limestone. The base of the Miocene is revealed at one place only, which is at the west end of the bluff near the pumping station. Immediately beneath the indurated layer there is a loose conglomerate consisting of rounded pebbles and irregular nodules of phosphate, internal phosphate casts of

¹Amer. Jour. Sci., 3d ser., vol. 1, pp. 468-469, 1871.