into siliceous sediments of the Monterey Shale in Monterey Bay, California. The rocks were reported to be chert and to have a hardness of seven on the Mohs scale.

The presence of burrows of *P. conradi* in nephrite seems to substantiate the findings of Smith (1969) that the species uses chemical assistance for boring and Haderlie (1976, 1979, 1980) that it somehow bores into substrata much harder than its shell. Further studies are necessary to elucidate the method of substratum dissolution.

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The shells of *Penitella conradi* and selected specimens of nephrite with pholadid burrows are in the Natural History Museum of Los Angeles County, Invertebrate Paleontology Section (LACMIP) as hypotypes 2480-2482.

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