



22 May 2019

Jean Unmuth
Wisconsin Dept. of Natural Resources
1500 N. Johns Street
Dodgeville, WI 53533-2116

Dear Jean -

I'm writing to inform you of a positive *Potamopyrgus antipodarum* (New Zealand mud snail, NZMS) occurrence in a wadeable sample you provided to the Aquatic Biomonitoring Laboratory (ABL).

During taxonomic procedure on Database Key 168762793, Sample ID 20180924-25-05, Strutt Creek, I noted one viable and one unviable specimen of a snail I suspected was NZMS. I opened the unsorted remnant from sorting procedure and collected 7 additional viable specimens (Figure 1). Figures are provided in supplemental document.

I performed detailed taxonomic procedure on these specimens and determined these specimens were New Zealand mud snails. Procedure was documented with digital images. External characteristics, while not definitive, included size, number of whorls, relative height of aperture compared to total height, general shape of aperture, deep sutures between body whorls, and raised peripheral periostracal ridge comprised of small, close-set spines. I cracked two specimens to access body masses. Both specimens displayed definitive NZMS characteristics including developing embryos in the pallial oviduct (Figures 3, 4, and 8), and paucispiral operculum with calcareous white smear (Figures 6 and 9).

Specimens are currently archived in ABL. Please do not hesitate to contact me with questions.

Sincerely -

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