
ZEBRA MUSSEL INFESTATION REPORT: LAKE JOHANNA, RAMSEY COUNTY

MnDNR – Division of Ecological and Water Resources - Invasive Species Program

Lake: Johanna (62007800)

County: Ramsey

Type of report: Zebra mussel - new infestation

Date of report: September 7, 2018

Author[s] of report: K. Lund, K. Cattoor

Date of inspection: August 21, 2018

Survey methods: SCUBA, snorkel, wading

Results: **6 ADULT ZEBRA MUSSELS FOUND**

Observers: Keegan Lund, Caroline Fazzio, Kylie Cattoor, Rice Creek and Ramsey County staff

Summary: On August 18, 2018, as part of a county led early detection program, Noah Berg (Endangered Resource Services LLC) discovered one live adult zebra mussel on Lake Johanna, Ramsey County at the Tony Schmidt Regional Park public boat landing. The zebra mussel was attached to a rock in 5 feet of water with an additional half shell located in the same vicinity. Photos of the live specimen were submitted to Ramsey County and the MnDNR staff on August 20, 2018.

On August 21, DNR, Rice Creek Watershed District and Ramsey County staff conducted a follow-up survey using wading, snorkeling and SCUBA methods. They searched prioritized areas of suitable zebra mussel habitat throughout the lake with the majority time spent at the public access (see Map 1). Water clarity at time of search was approximately 2-4 feet. The survey crew found five additional zebra mussels (see Photos 3-5). The adult zebra mussels ranged in size from 2 to 3.4 cm in shell length.

A total of 5.63 search hours were completed on Lake Johanna. Veliger tows were taken as well with a plankton net and no veligers were identified to date, although timing for zebra mussel reproduction was not ideal. Zebra mussel reproduction in central Minnesota lakes is peak from mid-June through late July then tapering off in August.

Lake Johanna will be added to the Designated Infested Waters list as infested with zebra mussels and reported in EDDMaps Record ID 7808618.



Photos 1 & 2. One adult zebra mussel found by Matt Berg (Endangered Resource Services LLC) at initial survey of Lake Johanna on 18 August 2018.



Photos 3-5. Five additional adult zebra mussels found near the public access on Lake Johanna on 21 August 2018. Size of mussels ranged from approximately 2 to 3.4 cm in length.



Lake Johanna, Ramsey County Zebra Mussel Searches



Map 1. Map of zebra mussel search locations. In total the search effort in Lake Johanna was 338 minutes (5.63 hours) resulting in six confirmed zebra mussels. Initial observation (red) was on August 18, 2018 while additional searches were conducted on August 21, 2018.