


MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

TO: Mike Alexander, Phil Argiroff, Robert Day, Gary Kohlhepp, Michael Masterson,
Tiffany Myers, Steve Casey, Dennis Bush, Pete Ostlund
Water Resources Division

FROM: Diana Klemans 
Water Resources Division

DATE: March 5, 2015

SUBJECT: Site-Specific Modifications to the Chronic Water Quality Values for Copper in
Select Upper Peninsula Water Bodies

This memo is to inform you of site-specific modifications of the chronic water quality value for copper for selected water bodies in Michigan's Upper Peninsula, as described in Table 1 and mapped in Figures 1-5 (attached). The site-specific criteria (SSC) for copper must be used for developing National Pollutant Discharge Elimination System permit limitations and assessing attainment of water quality standards (WQS), consistent with Michigan's Part 4 rules, WQS, promulgated under Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; Part 8, Water Quality-Based Effluent Limit Development for Toxic Substances rules; and Appendix F, Great Lakes Water Quality Implementation Procedures of Title 40, Part 132, Water Quality Guidance for the Great Lakes System.

The SSC were established in accordance with Michigan's Part 4 rules, specifically, Rule 323.1057(2)(r), that allows the Michigan Department of Environmental Quality (DEQ) to modify aquatic life values on a site-specific basis to be more or less stringent to reflect local environmental conditions. The site-specific modifications to the chronic water quality values for copper for selected water bodies in Michigan's Upper Peninsula were approved by the United States Environmental Protection Agency (USEPA) on September 26, 2013.

The site-specific water quality values for copper, supporting documentation for their development, and figures that map the specific stream segment location can be found at *(the link provided was broken and has been removed)*, then Site-Specific Rule 57 Water Quality Values.

If you have any questions regarding the development of the site-specific water quality values for copper please contact Ms. Tamara Lipsey at 517-284-5545 or lipseyt@michigan.gov, or me at 517-284-5510 or klemansd@michigan.gov.

Attachment

cc: Ms. Linda Holst, USEPA
Mr. William Creal, MDEQ
Ms. Kim Fish, MDEQ
Ms. Tamara Lipsey, MDEQ
Ms. Sylvia Heaton/WQS Files, MDEQ

ATTACHMENT

Table 1. USEPA approved site-specific water quality values for total copper at select water body segments.

Water Body Segment Identification	Figure # for Water Body	Segment Description	Approved Chronic Water Quality Value (ug/L) for Total Copper	Watershed HUC
	Figure 1	Slaughterhouse Creek from Mine Pond to Fulton Creek	8	040201030303
	Figure 1	Slaughterhouse Creek from Fulton Creek to Kearsarge Creek	17	040201030303
	Figure 1	Kearsarge Creek and Slaughterhouse Creek from Kearsarge Creek downstream to Scales Creek confluence and Scales Creek from Kearsarge Creek downstream to Trap Rock River	12	040201030303
	Figure 1	Trap Rock River downstream from Scales Creek to Torch Lake confluence	7	040201030303
	Figure 2	Owl Creek from Owl Lake outlet to base of Patherick hill	12	040201030405
	Figure 2	Owl Creek from Second tributary from Owl Creek to stamp sands to wetland complex	22	040201030405
	Figure 3	Red Creek from confluence with East Sleeping River upstream to headwaters	9	040201030107
	Figure 3	East Sleeping River from Red Creek confluence downstream to Lake Superior	23	040201030107
	Figure 4	Huron Creek from headwaters downstream to Razorback Road	31	040201030307
	Figure 5	East Branch Eagle River from headwaters downstream to Buffalo Creek confluence	31	040201030404

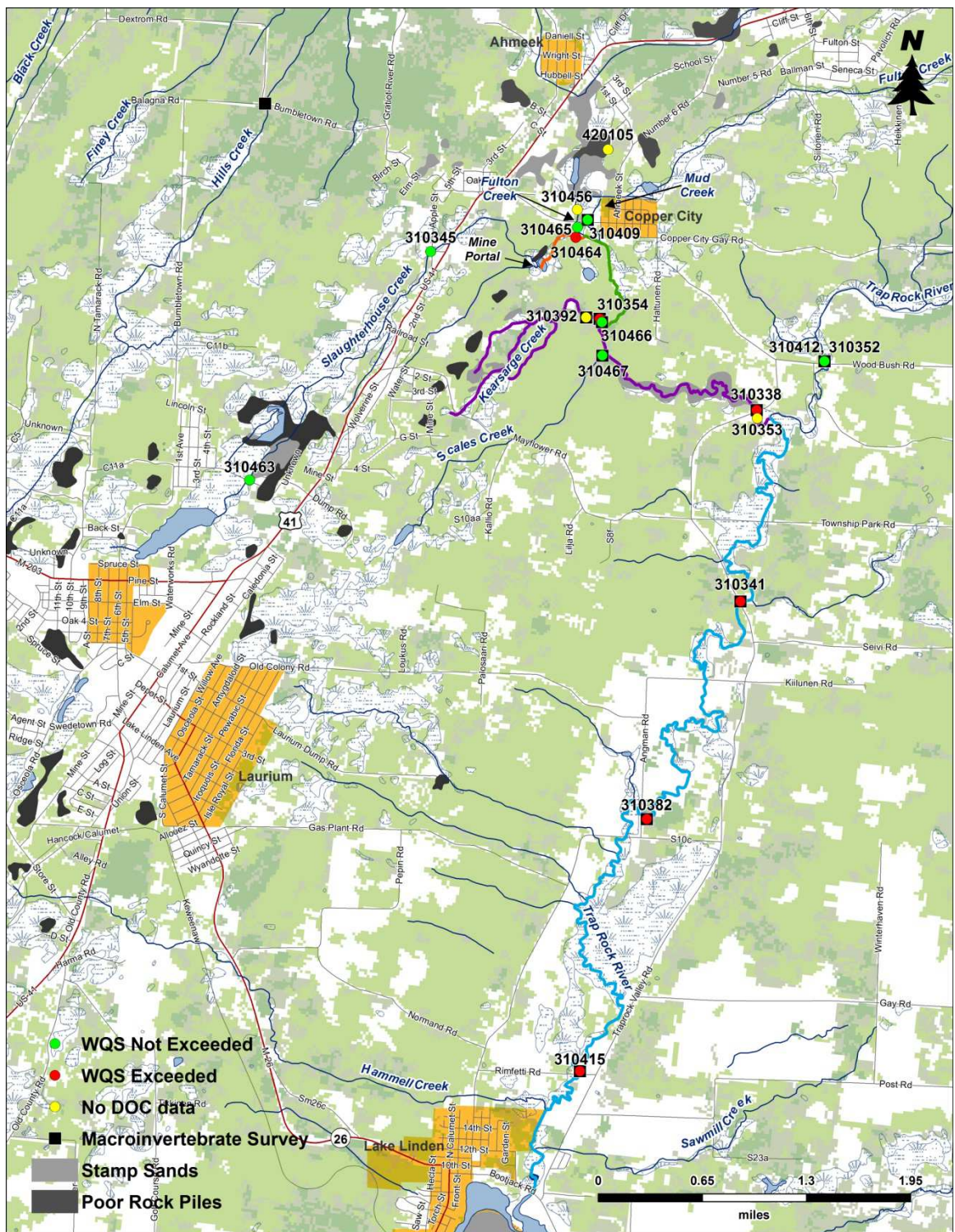


Figure 1. Trap Rock River watershed. Colored segments of stream have chronic Site-Specific Water Quality Values for total copper. The station numbers are STORET stations.



Figure 2. Owl Creek watershed. Colored segments of stream have chronic Site-Specific Water Quality Values for total copper. The station numbers are STORET stations.

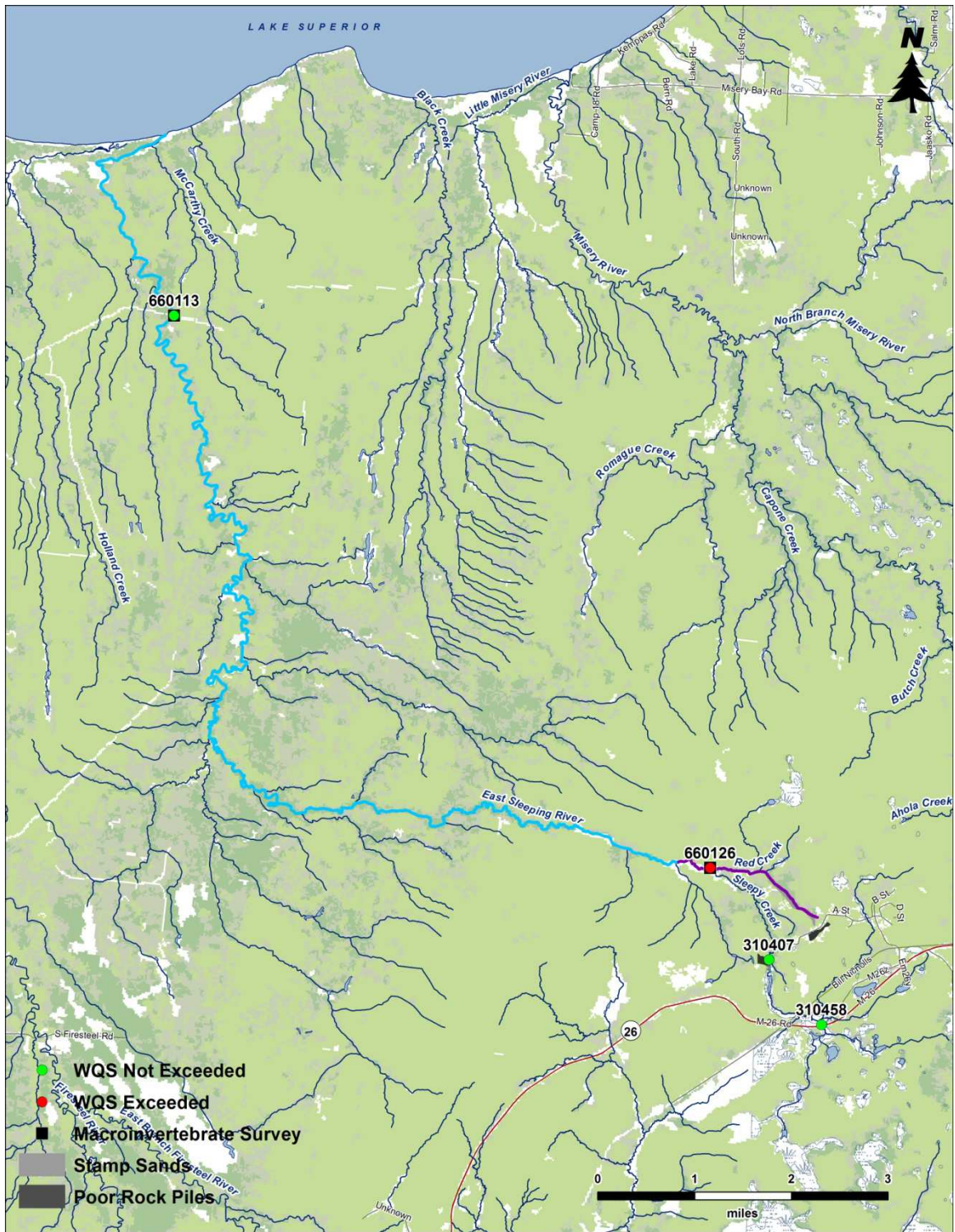


Figure 3. East Sleeping River watershed, including Red Creek. Colored segments of stream have chronic Site-Specific Water Quality Values for total copper. The station numbers are STORET stations.

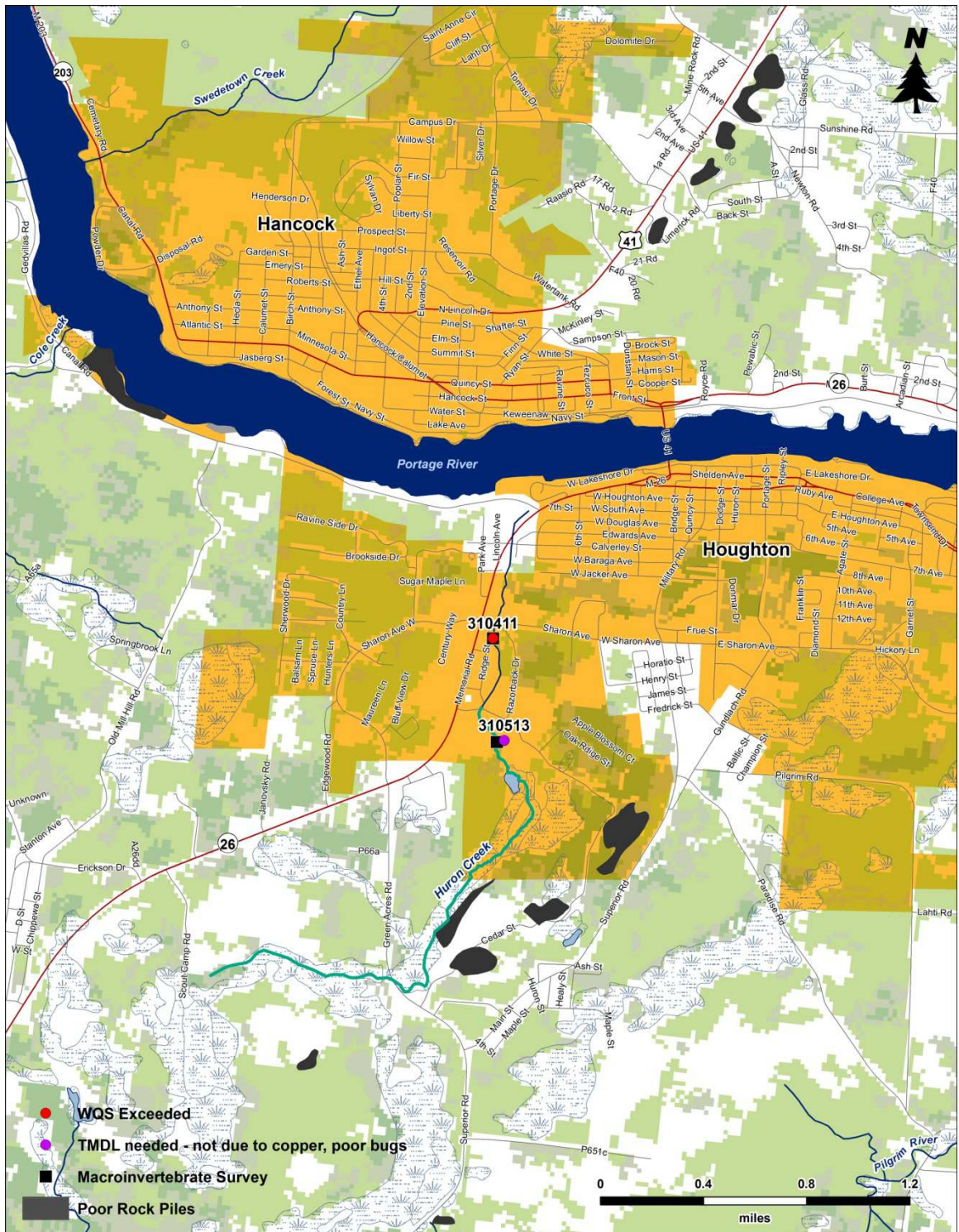


Figure 4. Huron Creek watershed. Green colored segment of stream has chronic Site-Specific Water Quality Values for total copper. The station numbers are STORET stations.

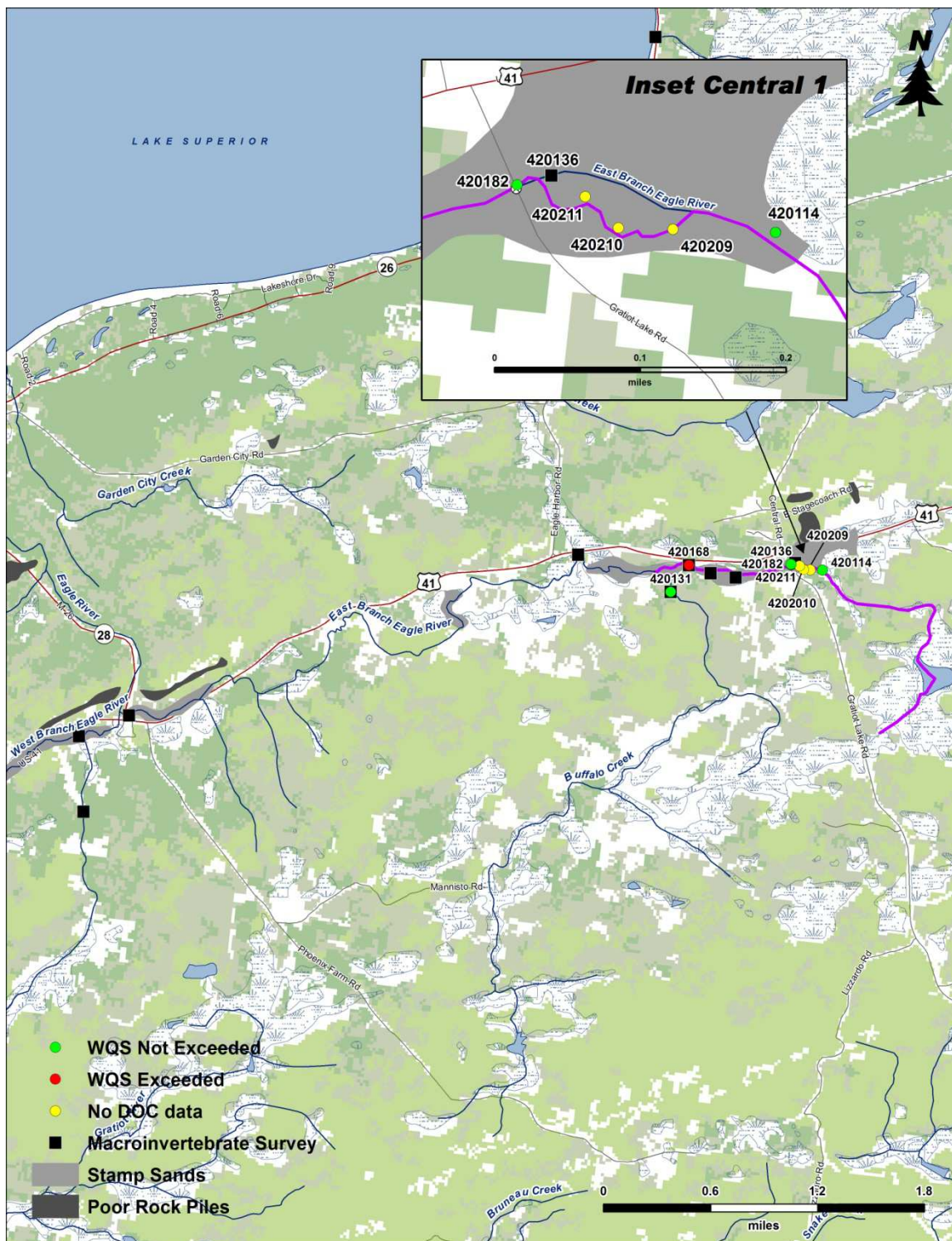


Figure 5. Eagle River watershed. Colored segments of stream have chronic Site-Specific Water Quality Values for total copper. The station numbers are STORET stations.