

Presented below are water quality standards that are in effect for Clean Water Act purposes.

EPA is posting these standards as a convenience to users and has made a reasonable effort to assure their accuracy. Additionally, EPA has made a reasonable effort to identify parts of the standards that are not approved, disapproved, or are otherwise not in effect for Clean Water Act purposes.

Table 1. Chronic site specific criteria for total copper in Michigan's Keweenaw Peninsula, approved by EPA on September 26, 2013.

SSC ID ^a	Site Description	Sampling Locations	Sampling Location ID	Latitude	Longitude	County	Total copper SSC ^b (µg/L)
No. 2 Orange SSC Figure 4	Slaughterhouse Creek from Mine Pond to Fulton Creek	u/s Fulton Ck.	310464	47.28230	-88.39450	Houghton	8
No. 3 Green SSC Figure 4	Slaughterhouse Creek from Fulton Creek to Kearsarge Creek	d/s Queen Ann Falls	310466	47.2747	-88.39070	Houghton	17
No. 4 Purple SSC Figure 4	Scales Creek from Slaughterhouse Creek to Kearsarge Creek to Trap Rock River	u/s Valley Rd.	310338	47.26720	-88.36980	Houghton	12
		50 yds d/s Valley Rd.	310353	47.2672	-88.3698	Houghton	
		u/s of Slaughterhouse Cr. Confluence	310354	47.275	-88.39100	Houghton	
No. 5 Blue SSC Figure 4	Trap Rock River from Scales Creek to Torch Lake	Valley Rd.	310341	47.24990	-88.37120	Houghton	7
		Angman Rd.	310382	47.23000	-88.38276	Houghton	
		Rimfetti Rd.	310415	47.20708	-88.39062	Houghton	
No. 6 Blue SSC Figure 5	Owl Creek from Owl Lake outlet to base of Pentherick hill	Copper Falls	420164	47.42980	-88.19600	Keweenaw	12
No. 7 Purple SSC Figure 5	Owl Creek from second tributary from Owl Creek adit to stamp sands to wetland complex	in stamp sands	420137			Keweenaw	22
		u/s stamp sands	420143	47.43780	-88.19670	Keweenaw	
No. 8 Purple SSC Figure 6	Headwaters of East Sleeping River from headwaters of Red Creek to Sleepy Creek	d/s Red Ck.	660126	46.88050	-88.94360	Ontonagon	9
No. 9 Blue SSC Figure 6	East Branch Sleeping River from Sleepy Creek to Lake Superior	snowmobile trail	660113	46.96000	-89.06530	Ontonagon	23

SSC ID ^a	Site Description	Sampling Locations	Sampling Location ID	Latitude	Longitude	County	Total copper SSC ^b (µg/L)
No. 11(b) South Portion of Green SSC Figure 8	Huron Creek ¹ , but only to the extent that the SSC applies from headwaters to site 310513	u/s Razorback Rd.	310513	47.10660	-88.58650	Houghton	31
No. 12 Purple SSC Figure 9	Eagle River, East Branch from headwaters to Buffalo Ck.	u/s stamp sands	420114	47.40270	-88.19480	Keweenaw	31
		Site F	420168	47.40280	-88.21080	Keweenaw	
		Gratiot Lake Rd.	420182	47.40306	-88.19861	Keweenaw	
		CM-1-1	420209	47.4027	-88.1963	Keweenaw	
		CM-1-2	420210	47.40268	-88.1971	Keweenaw	
		CM-1-2	420211	47.40295	-88.1976	Keweenaw	

^aSSC ID represents information used to identify the segment from MDEQ's SSC justification document (segment color and Figure number as depicted on the included maps), and where SSC No. refers to the numeric order in which MDEQ provided the site descriptions in the SSC justification document. The justification document describing the derivation of the SSC, which was submitted to EPA for review and approval, is entitled "Development of Site-Specific Aquatic Life Values for Total Copper for Water Bodies in the Upper Peninsula of Michigan, October 5, 2012." The document can be obtained by contacting Candice Bauer (USEPA Region 5, Water Quality Branch) at 312-353-2106 or bauer.candice@epa.gov.

^bIn the absence of EPA-approved SSC, the total copper final chronic value (FCV) (as reported by MDEQ) was derived from the previously EPA-approved statewide chronic copper criteria calculated using the geometric mean of the site's hardness. *See*: EPA-approved chronic copper criterion at Mich. Admin. Code R323.1057 Table 2.

¹ Note that EPA approves, in this action, the SSC for Huron Creek as it applies from the headwaters of Huron Creek to sampling location 310513. However, no action is being taken at this time on the SSC as it applies from site 310513 to the Portage River.

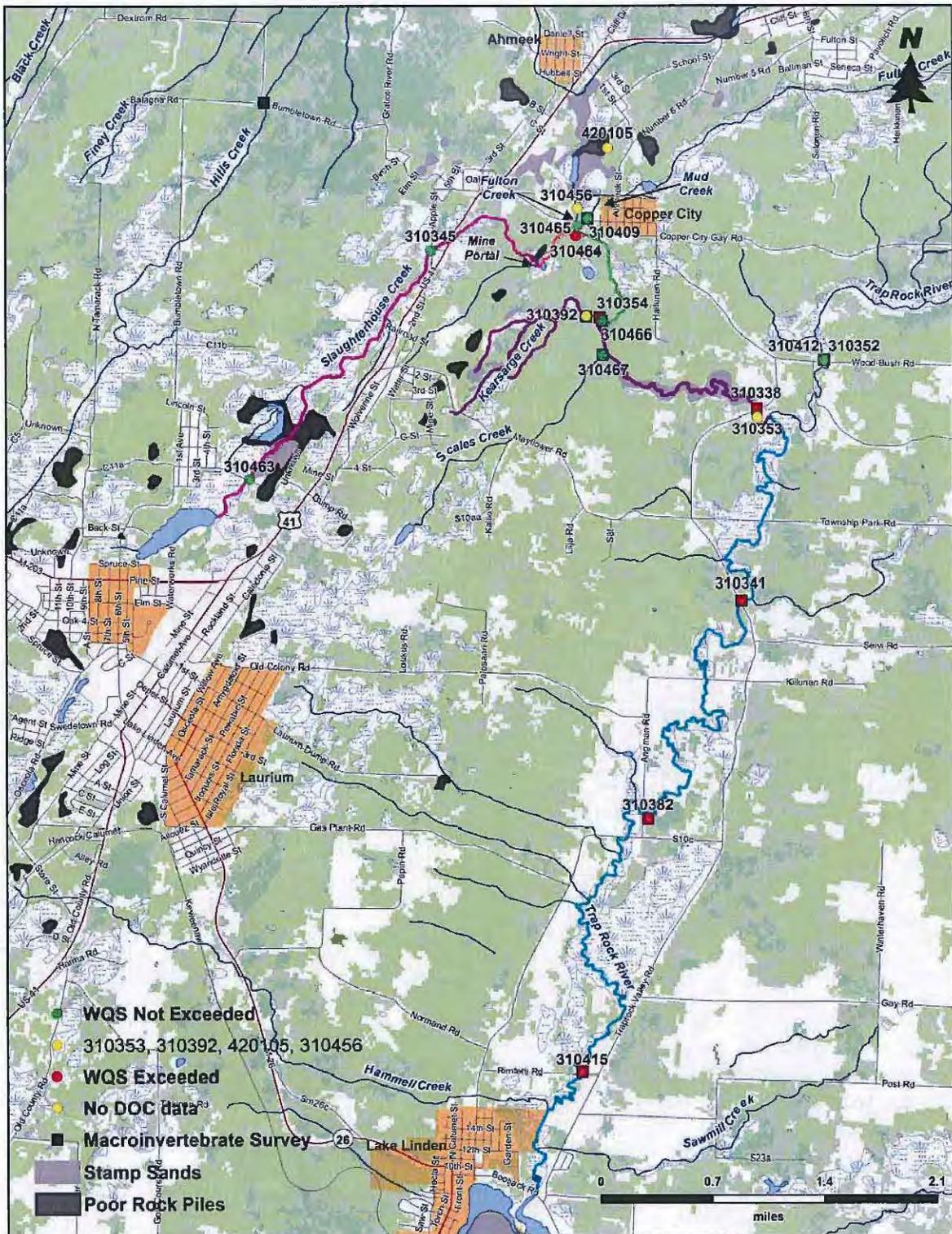


Figure 4. Trap Rock River watershed sampling stations for collection of water quality and macroinvertebrate community data to develop site-specific aquatic life values for total copper. Houghton County, Michigan.



Figure 5. Owl Creek watershed sampling stations for collection of water quality and macroinvertebrate community data to develop site-specific aquatic life values for total copper. Keweenaw County, Michigan.

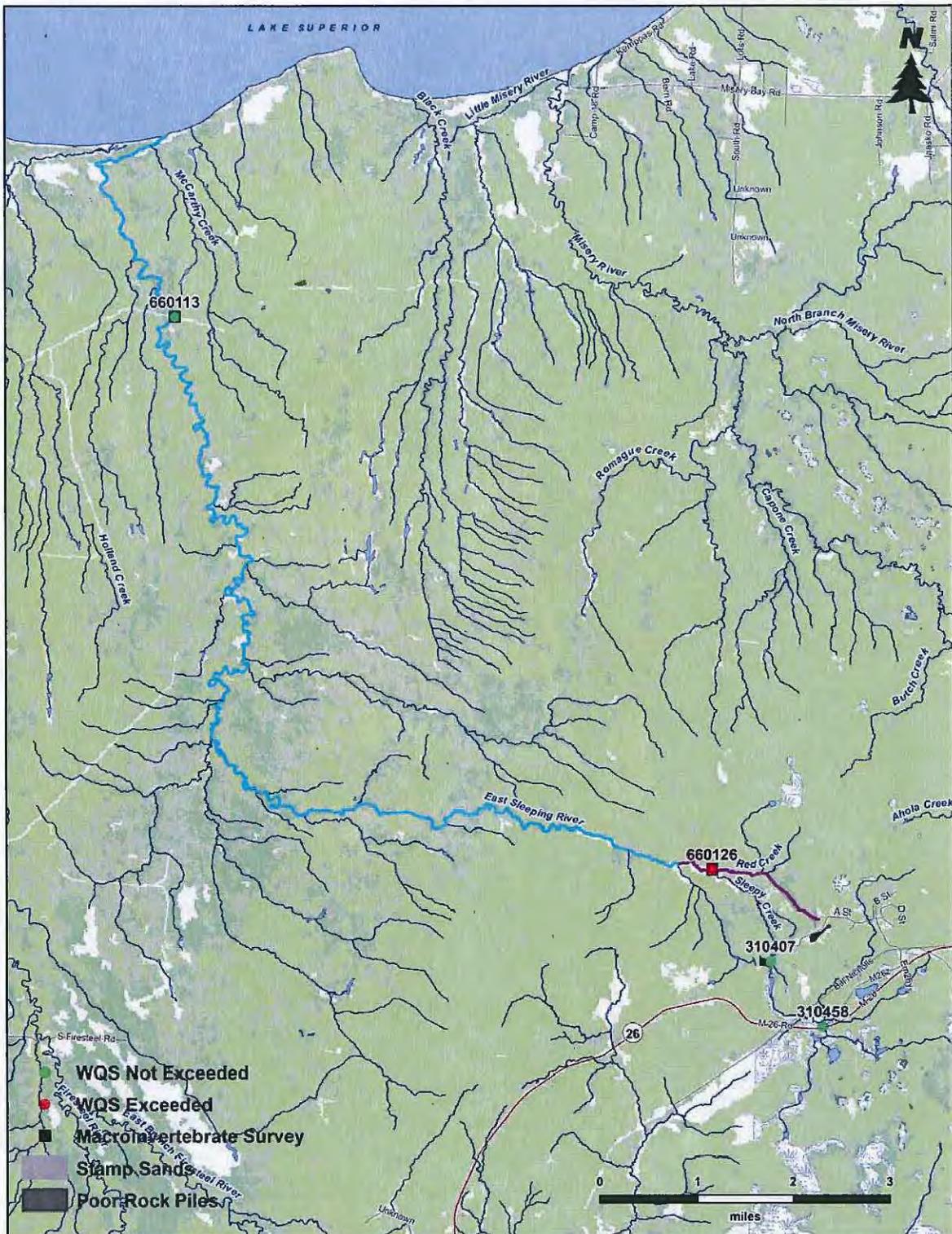


Figure 6. East Sleeping River watershed sampling stations for collection of water quality and macroinvertebrate community data to develop site-specific aquatic life values for total copper. Houghton and Ontonagon Counties, Michigan.

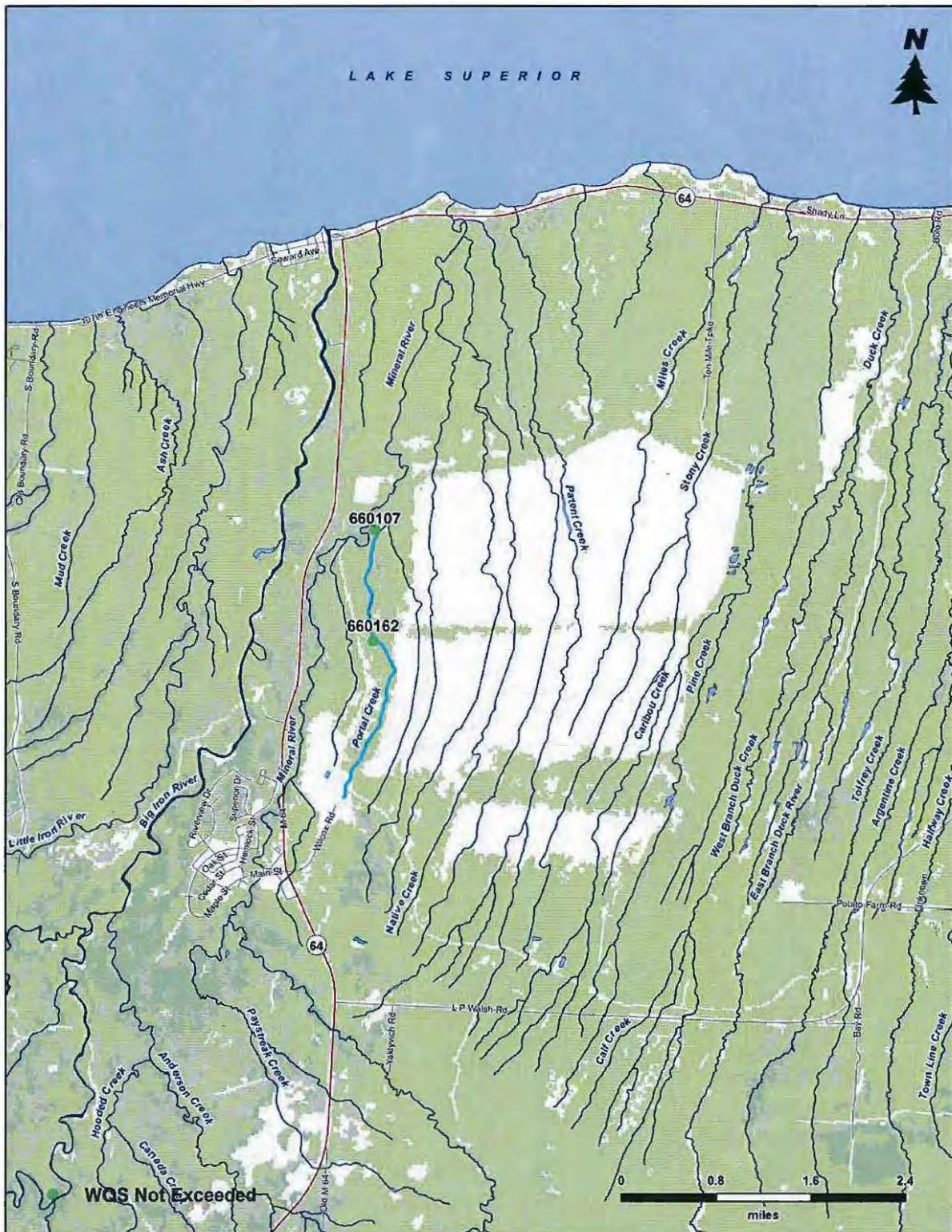


Figure 7. Portal Creek watershed sampling stations for collection of water quality and macroinvertebrate community data to develop site-specific aquatic life values for total copper. Ontonagon County, Michigan.

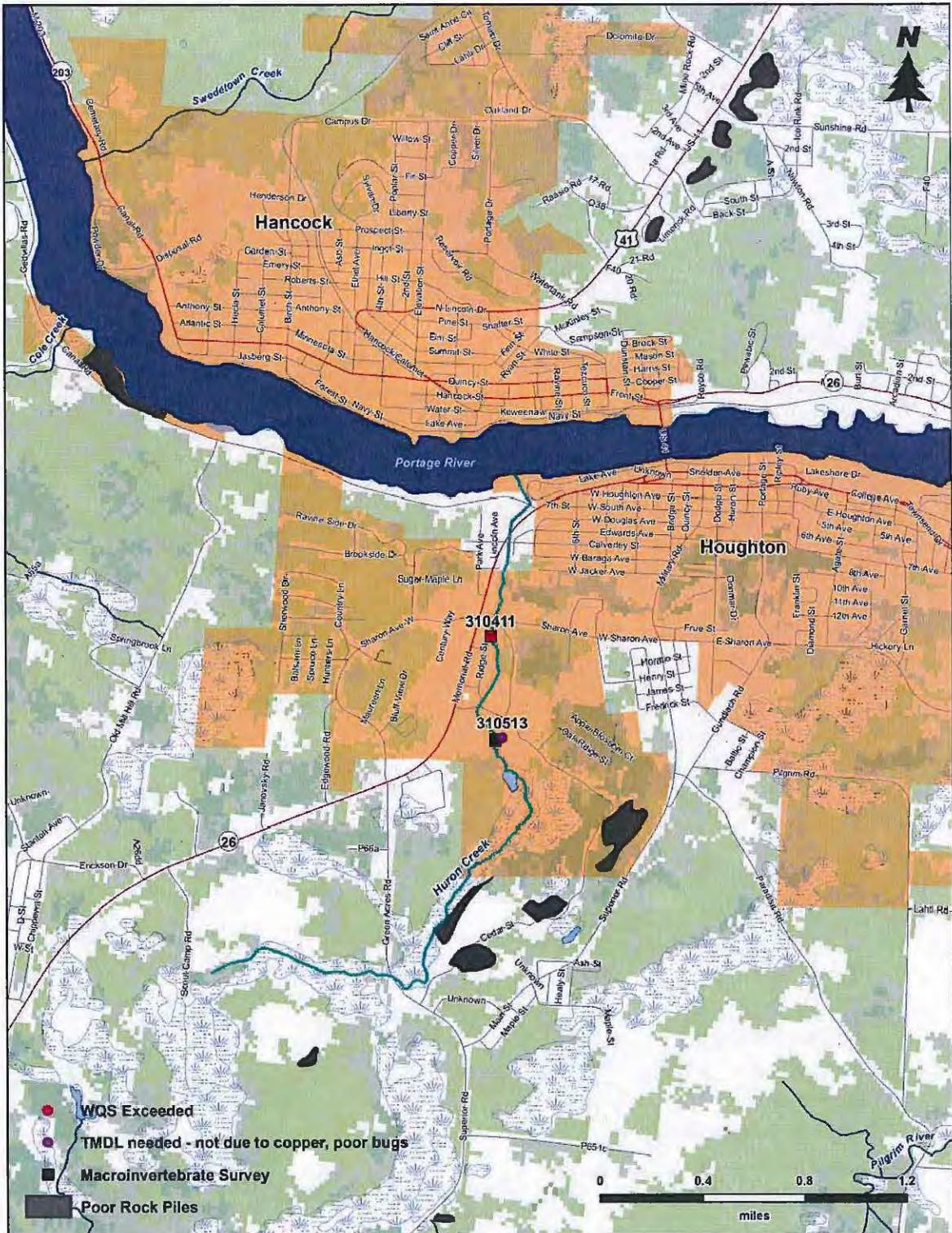


Figure 8. Huron Creek watershed sampling stations for collection of water quality and macroinvertebrate community data to develop site-specific aquatic life values for total copper. Houghton County, Michigan.

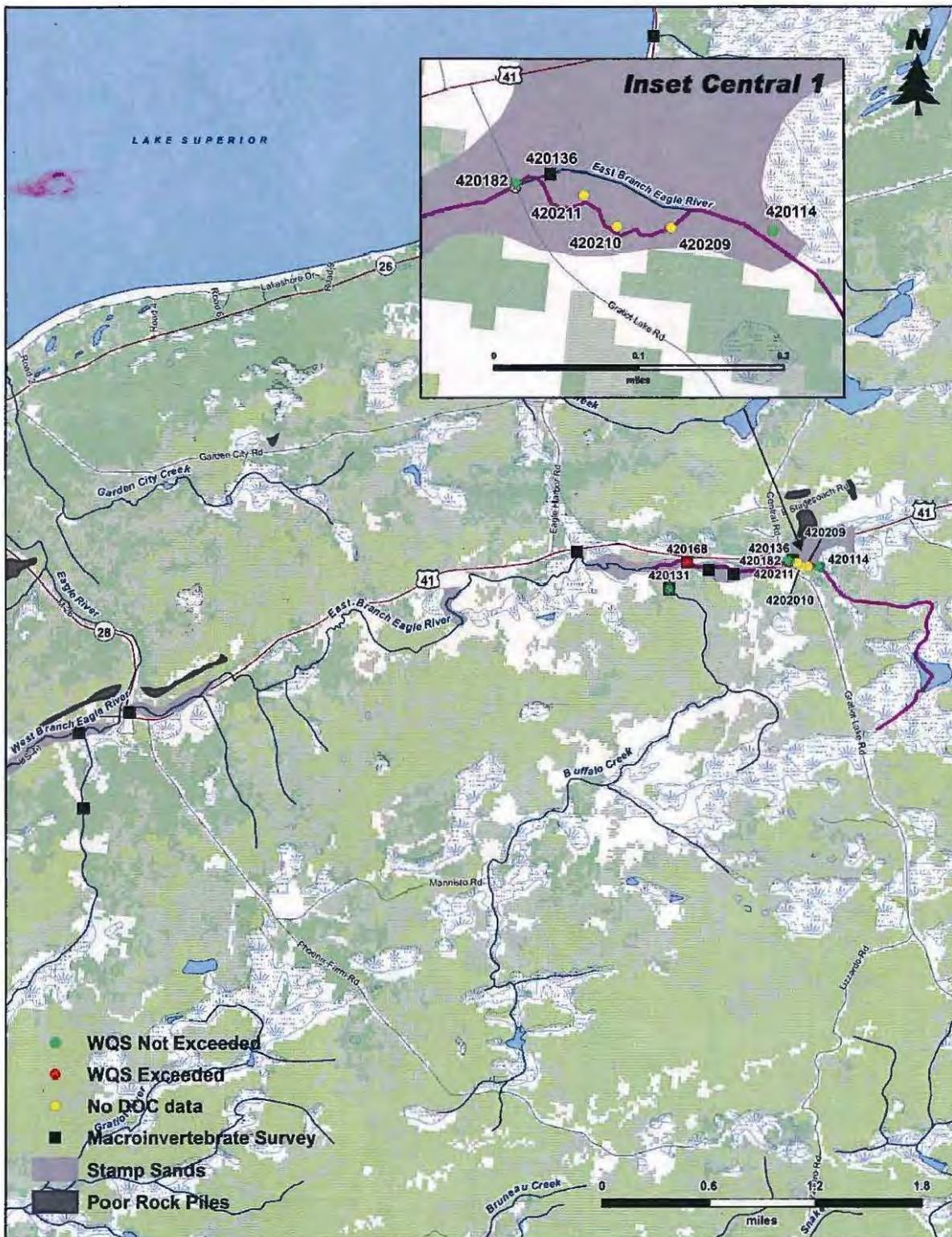


Figure 9. East Branch Eagle River watershed sampling stations for collection of water quality and macroinvertebrate community data to develop site-specific aquatic life values for total copper. Keweenaw County, Michigan.