**Correction Review Documentation Date: 12/12 /2014**

**07010205-658** Crow River, South Fork; Unnamed Cr to Minnesota R

**Pollutant or stressor:** Impaired Biota - Macroinvertebrates

**First listed:** 2006

**Original dataset:** from07010205-540 (parent of -658)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| List Year | Station\_ID | Results | Parameter Name | Date | Assessment | Chronic Std |
| 2006 | 99UM070\* | 31 | IBI Inverts | 9/14/1999 | NS | 53 |
| 2006 | 00UM048 | 41 | IBI Inverts | 9/20/2000 | NS | 53 |

**Reason for Listing / Additional information:** threshold for non-support was an IBI of 53. Both stations from two separate years have IBI scores below the Upper Mississippi River Basin Macroinvertebrate IBI threshold. AUID was previously listed for fish in 2002. \*99UM070 is not a monitoring station on 07010205-658 due to AUID split.

**Delisting/Correction requirements:**

**XIII. Removal of Waterbodies From 303(d) List of Impaired Waters**

"Streams with impaired aquatic communities can be corrected if additional bio-monitoring indicates that the community is no longer impaired when compared to the threshold indices of biotic integrity (IBI). Streams listed as impaired using the earlier narrative IBIs (Karr et al. 1986, Table 14) can be de-listed using the same narrative IBIs if watershed-specific, reference site-based, IBIs have not been determined for that reach. Otherwise, streams will be de-listed using the reference site-based threshold IBIs (in Section V.B.)".

**Current assessment (2012):**

**New dataset:** with current M-IBI andmodified aquatic use criteria

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| List Year | Station\_ID | Results | Parameter Name | Date | Assessment | Chronic Std |
| 2014 | 12UM042 | 25.5 | Invert IBI | 7/30/12 | EXP | 22 + 13.6 |
| 2014 | 00UM048 | 23.5 | Invert IBI | 7/31/12 | EXP | 22 + 13.6 |
| 2014 | 00UM053 | 37.1 | Invert IBI | 7/31/12 | MTS | 22 + 13.6 |
| 2014 | 12UM058 | 41.2 | Invert IBI | 7/31/12 | MTS | 22 + 13.6 |

**Original Listing data rescored with new criteria:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| List Year | Station\_ID | Results | Parameter Name | Date | Assessment | Chronic Std |
| 2012 | 00UM048 | 19.0 | Invert IBI | 9/20/00 | EXP | 22 + 13.6 |

**Desktop Review Bio:** J. Genet - 4/9/14 - Invert data collected from 5 stations in 2012. Originally listed as impaired for inverts in 2006. Use attainability analysis resulted in splitting original assessment unit into upper modified use and lower general use sections. Pertaining to the original listing only data from 00UM048 is relevant. The original data (2000) was re-scored with the new, statewide IBI and compared to the modified use biocriteria. The 2000 IBI score is below the modified use threshold within the confidence interval. 2012 data from this same station scores above the modified use threshold within the confidence interval. 2012 data from 3 stations located upstream and downstream of 00UM048 all score above modified use threshold, with two scoring above the upper confidence limit. Pending adoption of the use change, would recommend an IBI correction for this segment of the SF Crow River to remove existing invert impairment. Support of modified use based on aquatic macroinvertebrates pending rule change.

**Watershed Assessment Team:** 12/9/14 - Dissolved oxygen will remain as IF because there is limited confidence in the dataset. The fish data supports the previous listing and will carry forward the parents ID (540) listing. Inverts data now shows supports for modified use; will be corrected. (J. Genet)

**Additional information:** The original biological listing (2006) was based on now outdated biological criteria (Upper Miss Invert IBI), however the macroinvertebrate community data from this AUID only indicates support of a modified aquatic life use using the new statewide IBI and associated biocriteria. It is for this reason only that the macroinvertebrates meet biological expectations, they would not meet general use aquatic life expectations. Therefore, a correction is recommended pending the adoption of TALU in Minnesota water quality standards (Minn Rule 7050) and the accompanying change in this AUID’s designation to a modified aquatic life use. This is the type of situation the Agency tried to minimize with the policy of deferring of impairments on channelized streams (2008-2013).

**Correction Review meeting summary & (date):**

**Recommendation:**