***June 30, 2011***

**Final 2010 Integrated Report: waters removed (de-listed) from Iowa's 2008 impaired waters list**

**Category 5 waters:** impaired by a pollutant and in need of a TMDL (i.e., the state's Section 303(d) list)

According to federal rules, impairments can be removed for a variety of reasons including preparation & EPA approval of a TMDL, new data showing that the impaired use is fully met, or discovery of an error in originally identifying the impairment. Also, if the party responsible for a pollutant-caused fish kill is identified, and restitution is sought for value of the fish killed and the costs of DNR investigations, the impairment is removed from the state list.

**Explanations of Integrated Report subcategories used in this table:**

**Category 2a:** at least one designated use is met, but insufficient information exists to determine if other uses are met.
**Category 3a:** insufficient data exist to determine whether any designated uses are met.
**Category 4a:** at least one use is impaired, but a TMDL has been completed and approved.
**Category 4c:** at least one use impaired, but the impairment is not caused by a "pollutant."
**Category 4d:** water is impaired by a fish kill but enforcement actions have been taken against responsible party.
**Category 5a:** cause of impairment due to known pollutant
**Category 5b:** biological impairment with cause unknown, or fish-kill impairment
**Category 5p:** impairment of presumptive use; EPA-approved use attainability analysis (UAA) is needed to determine appropriate use.

Waterbodies are listed hydrologically by major basin and by subbasin (i.e., by ADB Code).

| ADB Code | Waterbody Name | Location Description | Des. Use Impaired during 2008 Cycle: | Cause of 2008 303(d) listing | Rationale for 303(d) listing in 2008 Cycle: | 2008 IR Cat. | 2010 IR Cat | De-listing rationale |
|---|---|---|---|---|---|---|---|---|
| **Northeast Iowa River basins** | | | | | | | | |
| IA 01-MAQ-00680-L_0 | Silver Lake | Delaware County, S16,T88N,R4W, SE edge of Delhi. | primary contact recreation | algae | aesthetically objectionable conditions: Chl-a trophic state index > 70. | 5a | 4a | TMDL prepared & approved. |
| IA 01-MAQ-00680-L_0 | Silver Lake | Delaware County, S16,T88N,R4W, SE edge of Delhi. | aquatic life | low DO | > 10% of samples violate WQ criteria | 5a | 4a | TMDL prepared & approved. |
| IA 01-MAQ-00680-L_0 | Silver Lake | Delaware County, S16,T88N,R4W, SE edge of Delhi. | primary contact recreation | pH | > 10% of samples violate WQ criteria | 5a | 4a | TMDL prepared & approved. |
| IA 01-MAQ-00680-L_0 | Silver Lake | Delaware County, S16,T88N,R4W, SE edge of Delhi. | aquatic life | pH | > 10% of samples violate WQ criteria | 5a | 4a | TMDL prepared & approved. |

| ADB Code | Waterbody Name | Location Description | Des. Use Impaired during 2008 Cycle: | Cause of 2008 303(d) listing | Rationale for 303(d) listing in 2008 Cycle: | 2008 IR Cat. | 2010 IR Cat | De-listing rationale |
|---|---|---|---|---|---|---|---|---|
| IA 01-MAQ-0220_1 | Plum Creek | mouth (Delaware Co.) to confluence with unnamed tributary in E 1/2 S24 T89N R4W Delaware Co. | aquatic life | biological: fish kill | fish kill | 5b | 4d | Restitution sought & or received for July 2007 fish kill caused runoff from dairy feedlot |
| IA 01-NEM-0010_4 | Mississippi River | from Wapsipinicon R. (Scott / Clinton Co. line) to Lock & Dam 13 at Clinton (Clinton Co.) | general uses | nutrients | aesthetically objectionable conditions and nuisance aquatic life. | 5a | 4a | TMDL prepared & approved. |
| IA 01-NEM-0081_0 | Conduit Creek | mouth (T78N R05E Sec8) to headwaters (T79N R05E Sec30) Scott Co. | aquatic life | biological: fish kill | fish kill in August 2006. | 5b | 4d | Restitution sought & or received for August 2006 fish kill caused by manure discharge |
| IA 01-NMQ-0010_1 | North Fork Maquoketa River | mouth (Jackson Co.) to confluence with Lytle Cr. S8 T85N R2E Jackson Co. | aquatic life | biological: unknown impact on freshwater mussels | > 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation | 5b | 3a | Error in assessment: impairment was incorrectly applied to this stream segment; should have been applied to upstream segment, IA 01-NMQ-0020_1. |
| IA 01-TRK-02415_0 | Unnamed Tributary to Point Hollow Creek | mouth to headwaters (T90N R2W Sec9), Dubuque Co. | aquatic life | biological: fish kill: ammonia and low DO | Fish kill in 2004 caused by animal waste. | 5b | 4d | Restitution sought & or received for August 2004 fish kill caused by open feedlot runoff |
| IA 01-TRK-0360_3 | Roberts Creek | from confluence with Silver Cr. (S16, T94N, R5W, Clayton Co.) to confluence with unnamed tributary in S8, T95N, R6W, Clayton Co. | aquatic life | biological: fish kill: ammonia and low DO | Fish kill in 2005 caused by animal waste. | 5b | 4d | Restitution sought & or received for August 2005 fish kill caused release of hog manure from an over-full storage pit |

| ADB Code | Waterbody Name | Location Description | Des. Use Impaired during 2008 Cycle: | Cause of 2008 303(d) listing | Rationale for 303(d) listing in 2008 Cycle: | 2008 IR Cat. | 2010 IR Cat | De-listing rationale |
|---|---|---|---|---|---|---|---|---|
| IA 01-WPS-0010_4 | Wapsipinicon River | from Plum Cr. (S18 T82N R1E Clinton Co.) to confluence with Walnut Cr. in S18 T83N R2W Jones Co. | aquatic life | biological: unknown impact on freshwater mussels | > 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation | 5b | 2a | FW mussel impairment was incorrectly applied to IA 01-WPS-0010_4 for past assessments; moved to WPS-0010_5 for the 2010 cycle. |
| IA 01-YEL-0080_3 | Yellow River | from N. Fk. Yellow R. (S13 T96N R7W Allamakee Co.) to confluence with unnamed tributary in SE 1/4 S8 T96N R7W Winneshiek Co. | aquatic life | low DO | > 10% of samples violate WQ criteria | 5a | 2a | New (2006-08) data do not show impairment due to low levels of dissolved oxygen. |
| **Iowa-Cedar River basin** | | | | | | | | |
| IA 02-CED-0020_2 | Cedar River | from Rock Run Cr. (S28 T80NR3W Cedar Co ) to Hwy 30 bridge at Cedar Rapids in S9 T82N R6W Linn Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| IA 02-CED-0020_3 | Cedar River | from Hwy 30 bridge at Cedar Rapids (S9, T82N, R6W, Linn Co) to confluence with Prairie Cr. in the SE 1/4, S34, T83N, R7W, Linn Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| IA 02-CED-0030_1 | Cedar River | from Prairie Cr. (SE 1/4, S34, T83N, R7W, Linn Co.) to confluence with McCloud Run in SW 1/4, S16, T83N, R7W, Linn Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| IA 02-CED-0030_2 | Cedar River | from confluence with McCloud Run (SW 1/4, S16, T83N, R7W, Linn Co.) to confluence with Bear Cr. in NE 1/4, S21, T84N, R8W, Linn Co. (includes East, West, Seminole, and Northwest well fields for city of Cedar Rapids water supply). | primary contact recreation | bacteria | > 10% of samples exceed single-sample maximum criterion | 5a | 4a | TMDL prepared & approved. |

| ADB Code | Waterbody Name | Location Description | Des. Use Impaired during 2008 Cycle: | Cause of 2008 303(d) listing | Rationale for 303(d) listing in 2008 Cycle: | 2008 IR Cat. | 2010 IR Cat | De-listing rationale |
|---|---|---|---|---|---|---|---|---|
| IA 02-CED-0040_1 | Cedar River | from Wolf Cr. (NE 1/4, S29, T87N, R11W, Black Hawk Co.) to bridge crossing in LaPorte City in S19, T87N, R11W, Black Hawk Co.) | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| IA 02-CED-0050-L_0 | Cedar River | from dam of Cedar Falls Impoundment (NW 1/4 S12 T89N R14W Black Hawk Co.) to upper end of impoundment (W line S2 T89N R14W Black Hawk Co.) | primary contact recreation | bacteria | > 10% of samples exceed single-sample maximum criterion | 5a | 4a | TMDL prepared & approved. |
| IA 02-CED-0110_2 | Cedar River | from Charles City Dam No. 2 (NW 1/4 NE 1/4 S12 T95N R16W Floyd Co.) to confluence with Rock Cr. in S24 T97N R17W Floyd Co.) | primary contact recreation | bacteria | > 10% of samples exceed single-sample maximum criterion | 5a | 4a | TMDL prepared & approved. |
| IA 02-CED-0110_3 | Cedar River | from Rock Cr. nr Orchard (S24 T97N R17W Floyd Co.) to Iowa / Minnesota state line (S8 T100N R18W Mitchell Co.) | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| IA 02-CED-0220_2 | Prairie Creek | from confluence with Mud Cr. (S21, T82N, R9W, Benton Co.) to confluence with unnamed tributary in S13, T83N, R12W, Benton Co. | aquatic life | biological: fish kill | Two fish kills in 2006, both caused by animal waste. | 5b | 4d | Restitution sought & or received for July 2006 fish kill caused by open feedlot runoff |
| IA 02-IOW-0020_2 | Iowa River | Johnson/Washington county line to English R. | aquatic life | biological: unknown impact on freshwater mussels | > 50% decline in mussel species richness; impairments potentially include flow alteration, habitat modification, nutrients, and/or siltation | 5b | 3a | FW mussel impairment was incorrectly applied to IA 02-IOW-0020_2 for past assessments; moved to IOW-0020_1 for the 2010 cycle. |

| ADB Code | Waterbody Name | Location Description | Des. Use Impaired during 2008 Cycle: | Cause of 2008 303(d) listing | Rationale for 303(d) listing in 2008 Cycle: | 2008 IR Cat. | 2010 IR Cat | De-listing rationale |
|---|---|---|---|---|---|---|---|---|
| IA 02-IOW-0086_0 | Otter Creek | from confluence with unnamed tributary(T73N R3W Sec4 Louisa Co.) to headwaters (T73N R4W Sec16 Louisa Co.) | aquatic life | biological: fish kill | Fish kills in 2007 caused by animal waste. | 5b | 4d | Restitution sought & or received for August 2007 fish kill caused by a manure spill from hog confinement operation |
| IA 02-IOW-0161_0 | Clear Creek | from confluence with tributary in Sec. 22, T80N, R9W (Iowa Co.) to headwaters in S28, T80N, R10W, (Iowa Co.) | general use | sewage (organic enrichment/Low DO) | aesthetically objectionable conditions | 5a | 2a | IDNR 2009 follow-up investigation shows impacts from untreated wastewater no longer exist. |
| IA 02-IOW-0161_0 | Clear Creek | from confluence with tributary in Sec. 22, T80N, R9W (Iowa Co.) to headwaters in S28, T80N, R10W, (Iowa Co.) | primary contact recreation | sewage (organic enrichment/Low DO) | aesthetically objectionable conditions | 5a | 2a | IDNR 2009 follow-up investigation shows impacts from untreated wastewater no longer exist. |
| IA 02-IOW-0161_0 | Clear Creek | from confluence with tributary in Sec. 22, T80N, R9W (Iowa Co.) to headwaters in S28, T80N, R10W, (Iowa Co.) | aquatic life | sewage (organic enrichment/Low DO) | aesthetically objectionable conditions | 5a | 2a | IDNR 2009 follow-up investigation shows impacts from untreated wastewater no longer exist. |
| IA 02-IOW-01615_0 | unnamed tributary to Clear Creek | from mouth (NW 1/4, S26, T80N, R10W, Iowa Co.) to headwaters in S21, T80N, R10W, Iowa Co. | general use | sewage (organic enrichment/Low DO) | aesthetically objectionable conditions | 5a | 2a | IDNR 2009 follow-up investigation shows impacts from untreated wastewater no longer exist. |
| IA 02-IOW-01615_0 | unnamed tributary to Clear Creek | from mouth (NW 1/4, S26, T80N, R10W, Iowa Co.) to headwaters in S21, T80N, R10W, Iowa Co. | primary contact recreation | sewage (organic enrichment/Low DO) | aesthetically objectionable conditions | 5a | 2a | IDNR 2009 follow-up investigation shows impacts from untreated wastewater no longer exist. |
| IA 02-IOW-01615_0 | unnamed tributary to Clear Creek | from mouth (NW 1/4, S26, T80N, R10W, Iowa Co.) to headwaters in S21, T80N, R10W, Iowa Co. | aquatic life | sewage (organic enrichment/Low DO) | aesthetically objectionable conditions | 5a | 2a | IDNR 2009 follow-up investigation shows impacts from untreated wastewater no longer exist. |

| ADB Code | Waterbody Name | Location Description | Des. Use Impaired during 2008 Cycle: | Cause of 2008 303(d) listing | Rationale for 303(d) listing in 2008 Cycle: | 2008 IR Cat. | 2010 IR Cat | De-listing rationale |
|---|---|---|---|---|---|---|---|---|
| IA 02-IOW-02195-L_0 | Union Grove Lake | Tama County S33T85NR16W 2.5 mi NW of Garwin. | primary contact recreation | algae | aesthetically objectionable conditions: Chl-a trophic state index > 65. | 5a | 4a | TMDL prepared & approved. |
| IA 02-IOW-02195-L_0 | Union Grove Lake | Tama County S33T85NR16W 2.5 mi NW of Garwin. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| IA 02-IOW-02195-L_0 | Union Grove Lake | Tama County S33T85NR16W 2.5 mi NW of Garwin. | primary contact recreation | pH | > 10% of samples violate WQ criteria | 5a | 4a | TMDL prepared & approved. |
| IA 02-IOW-02195-L_0 | Union Grove Lake | Tama County S33T85NR16W 2.5 mi NW of Garwin. | primary contact recreation | turbidity | aesthetically objectionable conditions: Secchi trophic state index > 65. | 5a | 4a | TMDL prepared & approved. |
| IA 02-IOW-0342_0 | School Creek | mouth (S28, T89N, R20W, Hardin Co.) to confluence with unnamed tributary in S16, T89N, R20W, Hardin Co. | aquatic life | biological: fish kill | Fish kill in July 2006 caused by spill of fatty acids, glycerin, and soybean oil. | 5b | 4d | Restitution sought & or received for July 2006 fish kill caused by a spill that contained fatty acids, glycerin, and soybean oil. |
| IA 02-IOW-0450_0 | Short Creek | from mouth (T75N R04W Sec19) to headwaters(T75N R06W Sec3) | aquatic life | biological: fish kill | Fish kill in August 2007 caused by animal waste. | 5b | 4d | Restitution sought & or received for August 2007 fish kill caused by a manure spill an open hog feedlot |
| IA 02-IOW-0451_0 | Unnamed Tributary to Short Creek | from mouth (T75N R04W Sec19) to headwaters(T75N R05W Sec36) | aquatic life | biological: fish kill | Fish kill in June 2007 caused by animal waste. | 5b | 4d | Restitution sought & or received for June 2007 fish kill caused by a manure release from an abandoned hog confinement operation |

| ADB Code | Waterbody Name | Location Description | Des. Use Impaired during 2008 Cycle: | Cause of 2008 303(d) listing | Rationale for 303(d) listing in 2008 Cycle: | 2008 IR Cat. | 2010 IR Cat | De-listing rationale |
|---|---|---|---|---|---|---|---|---|
| IA 02-SHL-0010_2 | Shell Rock River | from south corporate limit of Shell Rock (S12, T91N, R15W, Butler Co.) to confluence with Flood Cr. in S27, T93N, R16W, Butler Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 2a | New and historical data show low levels of indicator bacteria and full support of Class A1 uses. |
| IA 02-SHL-0020_1 | Shell Rock River | from confluence with the Winnebago River (Floyd Co.) to confluence with Rose Cr. in NW 1/4, S8, T97N, R18W, Cerro Gordo Co. | primary contact recreation | bacteria | > 10% of samples violate WQ criteria | 5a | 4a | TMDL prepared & approved. |
| IA 02-WIN-00465-L_0 | Ventura Marsh | Cerro Gordo County, S19,T96N,R22W, at Ventura. | aquatic life | algae | aesthetically objectionable conditions, in part, due to common carp | 5a | 4a | TMDL prepared & approved. |
| IA 02-WIN-00465-L_0 | Ventura Marsh | Cerro Gordo County, S19,T96N,R22W, at Ventura. | aquatic life | turbidity | aesthetically objectionable conditions, in part, due to common carp | 5a | 4a | TMDL prepared & approved. |
| **Skunk River basin** | | | | | | | | |
| IA 03-NSK-0030_0 | North Skunk River | from confluence with Sugar Cr. (S20, T78N, R16W, Poweshiek Co.) to confluence with Snipe Cr. in S22, T81N, R19W, Jasper Co. | aquatic life | biological: unknown impact on fish / aquatic macro-invertebrates | \low biotic index. | 5b | 4c | Impairment believed to be due to non-pollutant stressor (habitat alteration); thus, not appropriate for IR Category 5. |
| IA 03-NSK-0030_0 | North Skunk River | from confluence with Sugar Cr. (S20, T78N, R16W, Poweshiek Co.) to confluence with Snipe Cr. in S22, T81N, R19W, Jasper Co. | aquatic life | biological: fish kill | Fish kill in August 2006 caused by animal waste. | 5b | 4d | Restitution sought & or received for August 2006 fish kill caused by runoff from an open hog feedlot |

| ADB Code | Waterbody Name | Location Description | Des. Use Impaired during 2008 Cycle: | Cause of 2008 303(d) listing | Rationale for 303(d) listing in 2008 Cycle: | 2008 IR Cat. | 2010 IR Cat | De-listing rationale |
|---|---|---|---|---|---|---|---|---|
| IA 03-SKU-0116_0 | Crow Creek | from tributary(T72N R9W 31) to headwaters (T72N R10W Sec11); Jefferson Co. near Fairfield | aquatic life | biological: fish kill | Fish kill in September 2007 caused by discharge of fertilizer and pesticides. | 5b | 4d | Restitution sought & or received for September 2007 fish kill caused by discharge of fertilizer and pesticides from a fertilizer plant |
| IA 03-SSK-00118-L_0 | White Oak Conservation Area Lake | Mahaska County S28T75NR14W 4 mi SSW of Rose Hill. | primary contact recreation | turbidity | aesthetically objectionable conditions: Secchi trophic state index > 65. | 5a | 2a | Monitoring data from 2004-08 indicate, and IDNR Fisheries Bureau concurs, that levels of inorganic suspended solids are low and not impairing uses. |
| IA 03-SSK-0130_0 | Unnamed Tributary to South Skunk River | from mouth (T86N R24W Sec24) to headwaters (T86N R23W Sec17) Hamilton Co. | aquatic life | biological: fish kill | Fish kill in November 2007 caused by animal waste. | 5b | 4d | Restitution sought & or received for November 2007 fish kill caused by animal waste from a hog confinement |
| **Des Moines River basin** | | | | | | | | |
| IA 04-LDM-0040_1 | Des Moines River | upper end of Red Rock Reservoir (W line S34 T77N R20W Marion Co.) to confluence with South R. in S12 T77N R22W Warren Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| IA 04-LDM-0040_2 | Des Moines River | from confluence with South R. (S12 T77N R22W Warren Co.) to confluence with North R. in S36 T78N R23W Polk Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| IA 04-LDM-0040_3 | Des Moines River | from confluence with North R. (S36 T78N R23W Polk Co.) to confluence with Raccoon R. in S10 T78N R24W Polk Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |

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|---|---|---|---|---|---|---|---|---|
| IA 04-LDM-0119_0 | Sugar Creek | mouth (NE 1/4, S32, T72N, R13W, Wapello Co.) to headwaters in S6, T72N, R13W, Wapello Co. | aquatic life | biological: fish kill: industrial chemical | Fish kill in June 2004 caused by spill of industrial chemical (sulfuric acid). | 5b | 4d | Restitution sought & or received for June 2004 fish kill caused by spill of an industrial chemical (sulfuric acid) |
| IA 04-LDM-02718-L_0 | Hooper Area Pond | Warren County, S26,T75N,R24W, 5 mi SSW of Indianola. | aquatic life | pH | < 10% of samples violate WQ criteria | 5a | 2a | New data: pH data from 2004-2008 do not suggest a pH-related impairment. |
| IA 04-LDM-03085-L_0 | Cedar Lake | Madison County, S19,T76N,R27W near Winterset. | drinking water | atrazine | average levels > atrazine MCL (3 ppb) | 5a | 4a | TMDL prepared & approved. |
| IA 04-RAC-0050_2 | North Raccoon River | from County Road M54 (S24T88N R36W Sac Co.) to confluence with Drainage Ditch 101 in S36 T91N R36W Buena Vista Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5p | 4a | TMDL prepared & approved. |
| IA 04-RAC-0130_2 | Lake Creek | east line S12,T86N,R34W to DD-65/9&13, Calhoun Co. | aquatic life | biological: fish kill: unknown | Fish kills in July 2005 and August 2006 (2006 kill caused by animal waste). | 5b | 4d | Restitution sought & or received for August 2006 fish kill caused by manure runoff |
| IA 04-RAC-01700_0 | Lateral 6 | from mouth (T92N R36W Sec17) to headwaters (T92N R37W Sec4), Buena Vista Co. | aquatic life | biological: fish kill: unknown | Fish kill in August 2007 caused by spill from an industrial truck wash lagoon. | 5b | 4d | Restitution sought & or received for August 2007 fish kill caused by a spill from an industrial truck wash lagoon |
| IA 04-UDM-0010_1 | Des Moines River | from confluence with Raccoon R. in Des Moines to Center Street Dam in Des Moines Polk Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| IA 04-UDM-0010_2 | Des Moines River | from Center Street Dam in Des Moines to the Interstate 80/35 bridge in S17 T79N R24W Polk Co. | drinking water | nitrate | > 10% of samples violate nitrate MCL (10 ppm) | 5a | 4a | TMDL prepared & approved. |

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|---|---|---|---|---|---|---|---|---|
| IA 04-UDM-0010_2 | Des Moines River | from Center Street Dam in Des Moines to the Interstate 80/35 bridge in S17 T79N R24W Polk Co. | primary contact recreation | bacteria | geometric mean > WQ criterion | 5a | 4a | TMDL prepared & approved. |
| **Southern Iowa River basins** | | | | | | | | |
| IA 05-CHA-0020-L_2 | Rathbun Reservoir | from main lake basin uplake to inflow of South Fork Chariton River in S36 T70N R20W Wayne Co. | drinking water | atrazine | Average level in 2004-06 greater than MCL. | 5a | 3a | Assessment error: segment not designated for drinking water uses. |
| IA 05-NSH-00310-L_0 | Cold Springs Lake | Cass County S15T75NR37W 1 mi S of Lewis. | primary contact recreation | algae | Chl-a trophic state index < 65. | 5a | 2a | New data: lake renovation in 2006 resulted in improved water clarity. |
| IA 05-NSH-00310-L_0 | Cold Springs Lake | Cass County S15T75NR37W 1 mi S of Lewis. | primary contact recreation | pH | < 10% of samples violate WQ criteria over two IR cycles. | 5a | 2a | New data: monitoring data for 2004-08 period do not s how pH impairment. |
| IA 05-NSH-00310-L_0 | Cold Springs Lake | Cass County S15T75NR37W 1 mi S of Lewis. | aquatic life | pH | < 10% of samples violate WQ criteria over two IR cycles. | 5a | 2a | New data: monitoring data for 2004-08 period do not s how pH impairment. |
| IA 05-PLA-00380-L_0 | Wilson Park Lake | Taylor County S28T70NR32W 3 mi SSE of Lenox. | primary contact recreation | pH | < 10% of samples violate WQ criteria over two IR cycles. | 5a | 2a | New data: monitoring data for 2004-08 period do not s how pH impairment. |
| IA 05-PLA-00380-L_0 | Wilson Park Lake | Taylor County S28T70NR32W 3 mi SSE of Lenox. | aquatic life | pH | < 10% of samples violate WQ criteria over two IR cycles. | 5a | 2a | New data: monitoring data for 2004-08 period do not s how pH impairment. |
| IA 05-PLA-00430-L_0 | Windmill Lake | Taylor County S36T69NR35W 4 mi E of New Market. | primary contact recreation | pH | < 10% of samples violate WQ criteria over two IR cycles. | 5a | 2a | New data: monitoring data for 2004-08 period do not s how pH impairment. |
| IA 05-PLA-00430-L_0 | Windmill Lake | Taylor County S36T69NR35W 4 mi E of New Market. | aquatic life | pH | < 10% of samples violate WQ criteria over two IR cycles. | 5a | 2a | New data: monitoring data for 2004-08 period do not s how pH impairment. |

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|---|---|---|---|---|---|---|---|---|
| **Western Iowa River basins** | | | | | | | | |
| IA 06-BOY-0045_0 | Elk Creek | mouth (T80N R43W Sec11 Harrison Co.) to headwaters (T81N R42W Sec7) Harrison Co. | aquatic life | biological: fish kill: ammonia | Fish kill in March 2007 caused by animal waste. | 5b | 4d | Restitution sought & or received for a March 2007 fish kill caused by spill of hog manure |
| IA 06-FLO-0070_0 | Deep Creek | mo to trib S35T94NR43W Sioux Co. | aquatic life | biological: fish kill: cause unknown | Fish kill in August 2007; caused by runoff from dairy farm. | 5b | 4d | Restitution sought & or received for August 2007 fish kill caused runoff from dairy feedlot |
| IA 06-LSR-0125_0 | New Farmer Ditch (AKA Garretson Outlet Ditch) | from mouth (T84N R45W Sec12 ) to headwaters (T85N R45W Sec5) Monona Co. | aquatic life | biological: fish kill: pesticides | Fish kill in August 2007 caused by herbicides applied to control vegetation in the ditch. | 5b | 4d | Restitution sought & or received for an August 2007 fish kill caused by herbicides used to control aquatic vegetation |
| IA 06-LSR-02390-L_0 | Lost Island Lake | Palo Alto County, S31,T97N,R34W, 3 mi N of Ruthven. | primary contact recreation | turbidity | aesthetically objectionable conditions: Secchi trophic state index > 65. | 5a | 4a | TMDL prepared & approved. |
| IA 06-LSR-0271_0 | Stony Creek | from unnamed tributary in S27,T98N,R38W Dickinson Co. to Stony Lake | aquatic life | biological: fish kill: ammonia and low DO | Fish kill in August 2006 caused by runoff of animal waste. | 5b | 4d | Restitution sought & or received for an August 2006 fish kill caused by animal waste |
| IA 06-LSR-03105-L_0 | Silver Lake | Dickinson County, S28,T100N,R38W, near Lake Park. | primary contact recreation | turbidity | aesthetically objectionable conditions: Secchi trophic state index > 65. | 5a | 4a | TMDL prepared & approved. |
| IA 06-WED-00270-L_0 | Arrowhead Pond | Pottawattamie County S29T77NR41W 1.5 mi SE of Neola | primary contact recreation | pH | < 10% of samples violate WQ criteria | 5a | 2a | New data show no pH impairments over the last two IR cycles. |

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|---|---|---|---|---|---|---|---|---|
| IA 06-WED-00270-L_0 | Arrowhead Pond | Pottawattamie County S29T77NR41W 1.5 mi SE of Neola | aquatic life | pH | < 10% of samples violate WQ criteria | 5a | 2a | New data show no pH impairments over the last two IR cycles. |

**Number of 2008 impairments moved to IR 2a: 20**
**Number of 2008 impairments moved to IR 3a: 3**
**Number of 2008 impairments moved to IR 4a: 30**
**Number of 2008 impairments moved to IR 4c: 1**
**Number of 2008 impairments moved to IR 4d: 19**

**Total number of 2008 impairments de-listed: 73**