July 15, 2008

Waters removed from the 2004 list of waters in need of further investigation (WINOFI) as part of the 2006 Section 305(b)/303(d) cycle.

The state list of waters in need of further investigation is required by Iowa's Credible Data Law and is comprised of waters in categories 2b and 3b of the Integrated Report.

WINOFI waters are those where limited information suggests, but does not conclusively demonstrate, a water quality impairment.

Waterbodies are listed hydrologically by major basin and by subbasin (I.e., by waterbody ID number).

2004 IR Cat.	Waterbody ID	Waterbody Type	Waterbody Name	Segment Description	Basis for addition to 2004 WINOFI:	2006 IR Category	Rationale for removal from 2004 WINOFI	Removal Category
3b	IA 01-TRK-0210_1	River	Turkey River	from Volga R. to 2 miles dstr Big Spring Hatchery	Potential biological impairment based on 2000 biological data from IDNR Fisheries; no biological assessment protocol for nonwadeable rivers.	2a	Re-calculation of biological impairment criteria based on more recent (2002-04) reference site sampling suggests "full support" of aquatic life uses.	Change / update in methodology
2b	IA 01-TRK-02245-L_0	Freshwater Lake	Lake Meyer	entire lake	Potential impairment based on information from IDNR Fisheries Bureau.	4a	A TMDL was prepared and approved by U.S. EPA.	TMDL approved
3b	IA 01-WPS-0190_6	River	East Fork Wapsipinicon River	Chickasaw Co. tributary to headwaters	Potential biological impairment based on 2002 biocriteria data; no biological assessment protocol for general use-only streams.	1	Re-calculation of biological impairment criteria based on more recent (2002-04) reference site sampling suggests "full support" of aquatic life uses.	Change / update in methodology

2004 IR Cat.	Waterbody ID	Waterbody Type	Waterbody Name	Segment Description	Basis for addition to 2004 WINOFI:	2006 IR Category	Rationale for removal from 2004 WINOFI	Removal Category
2b	IA 02-CED-02750-L_0	Freshwater Lake	Rodgers Park Lake	entire lake	Potential impairment based on ISU lake survey data for cyanobacteria; only one year's data (for 2000), no criteria.	2a	Analysis of additional years (2001-04) of cyanobacteria data from ISU lake survey shows very low levels of cyanobacteria: this lake had third lowest cyanobacteria median level during the 2000-04 assessment period.	More recent data shows full support
2b	IA 02-CED-03725-L_0	Freshwater Lake	Green Belt Lake	Green Belt Lake	Potential impairment based on ISU lake survey data for cyanobacteria; only one year's data (for 2000), no criteria.	2a	Analysis of additional years (2001-04) of cyanobacteria data from ISU lake survey shows low levels of cyanobacteria during the 2000-04 assessment period.	More recent data shows full support
3b	IA 02-CED-0460_2	River	Dry Run (aka Twomile Cr.)	from Hwy 188 to Bremer/Chickasaw co. line	Potential impairment: fish kill in 1998; no cause or source identified.	3a	No additional fish kills reported in at least six years following the original kill; stream segment considered "not assessed" for the 2006 reporting/listing cycle.	More recent data shows full support
3b	IA 02-CED-0490_1	River	Burr Oak Creek	mouth to Mitchell Co. road T46	Potential impairment based on results of 1994 IDNR stream use assessment; old data.	5b	Results of more recent (2001) IDNR/UHL biocriteria sampling suggest impairment of the aquatic life uses.	Change / update in methodology

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3b	IA 02-CED-0510_2	River	Rock Creek	from Mitchell Co. tributary to Goose Cr.	Potential impairment: fish kill in 2002; no cause or source identified. Biological (biocriteria) monitoring conducted one month after kill suggested "full support."	2a	Error in 2004 assessment: should have been assessed as "fully supporting" based on results of biological monitoring.	Correction of assessment error.
2b	IA 02-IOW-0010_2	River	Iowa River	from south corporate limit of Wapello to Long Cr.	Potential biological impairment based on 1999-2002 ambient biological (macroinvertebrate) sampling (BMIBI); no biological assessment protocol for nonwadeable rivers.	2a	Results of more recent (2002) IDNR/UHL biocriteria show "full support" of the aquatic life uses.	More recent data shows full support
3b	IA 02-IOW-00903_1	River	Buffington Creek	mouth to Big Slough Cr. (Louisa Co.)	Potential biological impairment based on 2001 biocriteria data; no biological assessment protocol for general use-only streams.	1	Re-calculation of biological impairment criteria based on more recent (2002-04) reference site sampling suggests "full support" of aquatic life uses.	Change / update in methodology

2004 IR Cat.	Waterbody ID	Waterbody Type	Waterbody Name	Segment Description	Basis for addition to 2004 WINOFI:	2006 IR Category	Rationale for removal from 2004 WINOFI	Removal Category
2b	IA 03-SKU-00650-L_0	Freshwater Lake	Geode Lake	entire lake	Potential impairment based on ISU lake survey data for cyanobacteria; only one year's data (for 2000), no criteria.	5a	Results of more recent monitoring (2002-04) show (1) low levels of cyanobacteria, (2) impairment of primary contact recreation uses due to high levels of indicator bacteria at this lakes beach, and (3) levels of pH exceeding WQ criteria.	More recent data suggest impairment
3b	IA 04-EDM-0010_2	River	East Fork Des Moines River	from Hwy 169 at Devine Access (S26, T94N, R29W, Kossuth Co.) to County Road B63 (130th) (S23 T94N, R29W Kossuth Co)	Potential impairment based on results of IDNR/UHL biological monitoring in 2002; no assessment protocol for nonwadeable rivers.	1	An EPA-recommended change in methodology eliminated the assessment category of "fully supported/threatened." Prior to the 2006 cycle, IDNR's FS/T category was a non-impairment category.	Change / update in methodology
2b	IA 04-LDM-0010_4	River	Des Moines River	from Chequest Cr. (Van Buren Co.) to Soap Cr. near Eldon, Wapello Co.	Potential impairment based on repeated kills, primarily of shovelnose sturgeon in recent years.	5b	Repeated fish kills, primarily of shovelnose sturgeon; most recently in 2002 and 2006; TMDL needed.	More recent data suggest impairment

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2b	IA 04-UDM-0030_1	River	Des Moines River	from upper end of Saylorville Reservoir to Fraser Dam	Potential impairment based on results of ambient water quality monitoring showing occasional violations of DO criteria.	2a	Results of more recent ISU/ACOE water quality monitoring in 2002 and 2004 do not suggest impairments due to low dissolved oxygen.	More recent data shows full support
3b	IA 04-UDM-01055-L_0	Freshwater Wetland	Burr Oak Lake	Emmett County, S21,T98N,R33W, 3.5 mi. SE of Wallingford.	Potential impairment based on information from the IDNR Wildlife Bureau.	1	An EPA-recommended change in methodology eliminated the assessment category of "fully supported/threatened." Prior to the 2006 cycle, IDNR's FS/T category was a non-impairment category.	Change / update in methodology
2b	IA 04-UDM-01650-L_0	Freshwater Lake	Don Williams Lake	entire lake	Potential impairment due to siltation; information from IDNR Fisheries Bureau.	4a	A TMDL for organic enrichment/low DO and siltation was prepared and approved by U.S. EPA.	TMDL approved
3b	IA 04-UDM-0300_1	River	Lizard Creek	mouth to unnamed tributary near Clare, Webster Co.	Potential impairment suggested by decline in mussel species richness from 1985 to 1998; low richness in 1985 makes comparisons difficult.	5b	Results of IDNR/UHL biological monitoring in 2002 and 2004 suggest impairment of aquatic life uses (low IBI scores for benthic macroinvertebrates).	More recent data suggest impairment

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3b	IA 05-CHA-00302_0	River	Chariton Creek	mouth to headwaters	Potential impairment suggested by results of WQ monitoring that show low levels of dissolved oxygen; general use-only.	1	Results of WQ monitoring from 2002-04 show improving WQ; no violations of DO criteria.	More recent data shows full support
2b	IA 05-PLA-00380-L_0	Freshwater Lake	Wilson Park Lake	entire lake	IDNR Fisheries Bureau, AL use impairment, BPJ.	5a	Results of more recent monitoring (2002-04) show (1) impairment of primary contact recreation uses due to high levels of algal turbidity and (2) levels of pH exceeding WQ criteria.	More recent data suggest impairment
3b	IA 06-BSR-0021_0	River	Perry Creek	PERRY CR	1991 IDNR stream use assessment; very old data.	5b	Results of more recent (2004) IDNR/UHL biological (REMAP) sampling suggest impairment of the aquatic life uses.	More recent data suggest impairment
2b	IA 06-LSR-00790-L_0	Freshwater Lake	Crawford Creek Impoundment	entire lake	ISU lake survey, cyanobacteria; 1-year's data, no criteria.	2a	Analysis of additional years (2001-04) of cyanobacteria data from ISU lake survey shows low levels of cyanobacteria.	More recent data shows full support
2b	IA 06-LSR-01760-L_0	Freshwater Lake	Mill Creek Lake	entire lake	ISU lake survey, cyanobacteria; 1-year's data, no criteria.	2a	Analysis of additional years (2001-04) of cyanobacteria data from ISU lake survey shows low levels of cyanobacteria.	More recent data shows full support

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2b	IA 06-LSR-02830-L_0	Freshwater Lake	Upper Gar Lake	entire lake	IDNR Fisheries Bureau, AL use impairment, BPJ.	4a	A TMDL for algal growth, nutrients, and suspended solids was prepared and approved by U.S. EPA.	TMDL approved