

**Category 5 of Iowa's Final/Approved 2004 Integrated Report as approved by U.S. EPA on May 23, 2006****Category 5 waters: impaired by a pollutant and in need of a TMDL (i.e., the state's Section 303(d) list)****Category 5a: cause of impairment known****Category 5b: cause of impairment unknown****Waterbodies are listed by major basin and by subbasin (i.e., by waterbody ID number).**

IR Category	Waterbody ID Number	Waterbody Name	Segment Description	Designated Use Impaired	Cause / Stressor for 2004 303(d) list	Rationale for 303(d) listing	Data Source
5a	IA 01-MAQ-0005-L_0	Shrickers Slough	entire wetland	aquatic life	algae	impacts to backwater of UMR	LTRMP ambient monitoring
5a	IA 01-MAQ-0005-L_0	Shrickers Slough	entire wetland	aquatic life	turbidity	impacts to backwater of UMR	LTRMP ambient monitoring
5b	IA 01-MAQ-0030_1	Elk River	mouth to North Branch Elk River	aquatic life	biological	low biotic index	IDNR/UHL biocriteria monitoring
5a & 5b	IA 01-MAQ-0060_1	Maquoketa River	from N. Fk. Maquoketa R. to Farm Cr. (Jones Co.)	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL ambient WQ monitoring
5b & 5a	IA 01-MAQ-0060_1	Maquoketa River	from N. Fk. Maquoketa R. to Farm Cr. (Jones Co.)	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 01-MAQ-0060_2	Maquoketa River	from Farm Cr. (Jones Co.) to Plum Cr. (Delaware Co.)	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5a	IA 01-MAQ-0090-L_0	Backbone Lake	entire lake	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL beach monitoring
5b	IA 01-MAQ-0130_0	Prairie Creek	mouth to Jackson Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biocriteria monitoring
5b	IA 01-MAQ-0200_0	Silver Creek	mouth to Jones Co. tributary	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 01-MAQ-0210_0	Buck Creek	mouth to Delaware Co. tributary	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study

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5b	IA 01-MAQ-0220_1	Plum Creek	mouth to Delaware Co. tributary	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5a	IA 01-NEM-0010_2	Mississippi River	from LD 15 at Davenport to LD 14 at Le Claire, Scott Co.	drinking water	arsenic	violations of human health criterion (0.18 ug/l)	USGS ambient WQ monitoring
5a	IA 01-NEM-0010_4	Mississippi River	from Wapsipinicon R. to LD 13 at Clinton	aquatic life	nutrients		ADM slime studies
5b	IA 01-NMQ-0010_2	North Fork Maquoketa River	from Lytle Cr. to Whitewater Cr.	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 01-NMQ-0020_2	North Fork Maquoketa River	from Bear Cr. (Dubuque Co.) to Dubuque Co. tributary	aquatic life	biological (potentially includes Low DO, siltation, and/or habitat alterations)	low biotic index	IDNR/UHL biocriteria
5b	IA 01-NMQ-0040_0	Farmers Creek	mouth to Jackson Co. tributary	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biocriteria
5b	IA 01-NMQ-0050_2	Lytle Creek	from Buncombe Cr. to Dubuque Co. tributary	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biocriteria
5b	IA 01-NMQ-0100_1	Whitewater Creek	mouth (Jones Co.) to Curran Branch (Dubuque Co.)	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study

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5b	IA 01-NMQ-0110_0	Johns Creek	mouth to Bakers Cr. (Dubuque Co.)	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 01-NMQ-0140_0	Bear Creek	mouth (Dubuque Co.) to Delaware Co. tributary	aquatic life	ammonia	pollutant-caused fish kill; no source identified	IDNR fish kill investigation
5b	IA 01-NMQ-0160_0	Hickory Creek	mouth to Dubuque Co. tributary	aquatic life	biological (potentially includes siltation and/or organic enrichment)	low biotic index	IDNR/UHL biocriteria sampling, 1999
5b	IA 01-NMQ-0160_0	Hickory Creek	mouth to Dubuque Co. tributary	aquatic life	habitat alterations	low biotic index	IDNR/UHL biocriteria sampling, 1999
5b	IA 01-TRK-0090_1	Tetes Des Morts Creek	mouth (Dubuque Co.) to Lux Cr. (Jackson Co.)	aquatic life	biological (potentially includes siltation and/or organic enrichment)	low biotic index	IDNR/UHL biocriteria sampling, 2001
5b	IA 01-TRK-0090_1	Tetes Des Morts Creek	mouth (Dubuque Co.) to Lux Cr. (Jackson Co.)	aquatic life	habitat alterations	low biotic index	IDNR/UHL biocriteria sampling, 2001
5b	IA 01-TRK-0260_0	Pecks Creek	mouth to S line, S15,T91N,R3W, Clayton Co.	aquatic life	biological (potentially includes organic enrichment)	low biotic index for coldwater streams	IDNR/UHL REMAP sampling, 2002
5b	IA 01-TRK-0260_0	Pecks Creek	mouth to S line, S15,T91N,R3W, Clayton Co.	aquatic life	habitat alterations	low biotic index for coldwater streams	IDNR/UHL REMAP sampling, 2002
5b	IA 01-TRK-0360_3	Roberts Creek	from Silver Cr. to Clayton Co. tributary	aquatic life	biological (potentially includes habitat alterations and siltation)	low biotic index	IDNR biocriteria and REMAP sampling
5b	IA 01-TRK-0381_0	Silver Creek	mouth to Clayton Co. tributary	aquatic life	biological (potentially includes siltation and/or organic enrichment)	low biotic index	IDNR/UHL biocriteria sampling, 2000
5b	IA 01-TRK-0381_0	Silver Creek	mouth to Clayton Co. tributary	aquatic life	habitat alterations	low biotic index	IDNR/UHL biocriteria sampling, 2000
5b	IA 01-TRK-0416_0	Nutting Creek	mouth to Fayette Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 1999
5b	IA 01-UIA-0010_1	Paint Creek	mouth to L. Paint Cr. (Allamakee Co.)	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 2000
5a	IA 01-UIA-0090_0	Upper Iowa River	mouth to RM 6 (=Lane's Bridge) Allamakee Co.	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring

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5a	IA 01-UIA-0100_0	Upper Iowa River	from RM 6 (=Lanes Br.) to Canoe Cr. (Winneshek Co.)	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5b	IA 01-UIA-0110_2	Upper Iowa River	from Trout Cr (dstr. Freeport) to Tenmile Cr.	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 01-UIA-0110_3	Upper Iowa River	from Tenmile Cr. to Silver Cr. (Winneshek Co.)	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 01-UIA-0120_1	Upper Iowa River	from Silver Cr. (nr Bluffton) to Silver Cr. (nr Kendalville)	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 01-UIA-0170_2	Bear Creek	from N. Bear Cr. to Mestad Spring (Winneshek Co.)	aquatic life	biological	runoff-related fish kill; no cause or source identified	IDNR fish kill investigation
5a	IA 01-VOL-0010_1	Volga River	mouth to Cox Cr. near Mederville (Clayton Co.)	primary contact	indicator bacteria	geometric mean >> WQS	IDNR/UHL ambient WQ & TMDL monitoring
5a	IA 01-VOL-0010_2	Volga River	from Cox Cr. to bridge crossing in Volga (Clayton Co.)	primary contact	indicator bacteria	geometric mean > WQS	IDNR/UHL TMDL monitoring
5a	IA 01-WPS-0010_1	Wapsipinicon River	mouth to Silver Cr. near DeWitt (Clinton Co.)	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5a	IA 01-WPS-0010_2	Wapsipinicon River	from Silver Cr. to Rock Cr. (Clinton Co.)	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5b	IA 01-WPS-0010_4	Wapsipinicon River	from Plum Cr. (Clinton Co.) to Walnut Cr. (Jones Co.)	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study

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5b	IA 01-WPS-0010_5	Wapsipinicon River	from Walnut Cr. (Jones Co.) to Buffalo Cr. at Anamosa	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5a	IA 01-WPS-0020_4	Wapsipinicon River	from Harter Cr. to L. Wapsipinicon R. (Buchanan Co.)	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5b	IA 01-WPS-0020_6	Wapsipinicon River	from Crane Cr. to E. Fk. Wapsipinicon R. (Bremer Co.)	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 01-WPS-0030_1	Wapsipinicon River	from L. Wapsipinicon R. to tributary 4 mi NNE Bassett	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness; low biotic index	ISU freshwater mussel study; IDNR/UHL biological monitoring
5b	IA 01-WPS-0030_5	Wapsipinicon River	from McIntyre to N line S20, T100N, R5W, Mitchell Co.	aquatic life	biological (potentially includes ammonia, organic enrichment, and/or siltation)	low biotic index; fish kill	IDNR/UHL biological monitoring; fish kill investigation
5a	IA 01-WPS-00375-L_0	Lake Hendricks	entire lake	primary contact	algae	TSI(chl) > 65 (66)	ISU statewide lake survey
5a	IA 01-WPS-00375-L_0	Lake Hendricks	entire lake	primary contact	organic enrichment/low DO	TSI(chl) > 65 (66)	ISU statewide lake survey
5b	IA 01-WPS-0109_0	Walnut Creek	mouth to White Oak Cr. (Jones Co.)	aquatic life	biological (fish kill due to ammonia and organic enrichment/low DO: source biological)	fish kill caused by fecal runoff	IDNR fish kill investigation
5b	IA 01-WPS-0130_1	Buffalo Creek	from Coggon Impoundment to Buchanan Co. tributary	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study

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5b	IA 01-WPS-0130_2	Buffalo Creek	from Buchanan Co. tributary to E. Br. & W. Br. Buffalo Cr.	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5a	IA 01-YEL-0070_0	Yellow River	mouth to Allamakee Co. Rd. X-26	primary contact	indicator bacteria	geometric mean > WQS	IDNR/UHL ambient WQ monitoring
5b	IA 01-YEL-0080_2	Yellow River	old Hwy 51 crossing to N. Fk. Yellow R. (Winneshek Co.)	aquatic life	biological (potentially includes habitat alterations)	low biotic index; fish kill	IDNR fish kill investigation; IDNR/UHL biological monitoring
5b	IA 01-YEL-0080_3	Yellow River	from N. Fk. Yellow R. to Winneshek Co. tributary	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological monitoring
5b	IA 01-YEL-0155_0	Unnamed Creek	mouth to headwaters at Postville	general use	biological	fish kill; low biotic index	IDNR fish kill investigation; IDNR/UHL biological monitoring
5a & 5b	IA 02-CED-0020_2	Cedar River	Rock Run Cr. (Cedar Co.) to Hwy 30 (Linn Co.)	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5b & 5a	IA 02-CED-0020_2	Cedar River	Rock Run Cr. (Cedar Co.) to Hwy 30 (Linn Co.)	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5a	IA 02-CED-0020_3	Cedar River	Hwy 30 (Linn Co.) to Prairie Cr. (Linn Co.)	primary contact	indicator bacteria	geometric mean > WQS	IDNR/UHL ambient WQ monitoring
5a	IA 02-CED-0030_1	Cedar River	from Prairie Cr. (Linn Co.) to McCloud Run (Linn Co.)	primary contact	indicator bacteria	geometric mean > WQS	IDNR/UHL ambient WQ monitoring
5a	IA 02-CED-0030_2	Cedar River	from McCloud Run (Linn Co.) to Bear Cr nr. Palo (Linn Co.)	drinking water	nitrate	worsening trend	IDNR/UHL ambient WQ monitoring; Cedar Rapids Water Dept. monitoring
5a	IA 02-CED-0040_1	Cedar River	from Wolf Cr. to LaPorte City bridge crossing	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5a	IA 02-CED-00485-L_0	George Wyth Lake	entire lake	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL beach monitoring

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5a	IA 02-CED-0050-L_0	Cedar River	Cedar Falls Impoundment	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5b	IA 02-CED-0110_3	Cedar River	from Rock Cr. (Floyd Co.) to IA/MN state line	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 02-CED-0170_1	Sugar Creek	mouth (at Cedar R.) to Mud Cr (Muscatine Co.)	aquatic life	Biological	low biotic index	IDNR/UHL biological monitoring
5b	IA 02-CED-0210_1	Indian Creek	mouth to Dry Cr. near Marion (Linn Co.)	aquatic life	biological (potentially includes habitat alterations)	low biotic index	IDNR/UHL biological monitoring
5a	IA 02-CED-0218_0	McCloud Run	mouth to headwaters in Cedar Rapids (Linn Co.)	aquatic life	thermal modifications	fish kill	IDNR fish kill investigation
5b	IA 02-CED-0270_1	Lime Creek	mouth (Benton Co.) to Buchanan Co. tributary	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5a	IA 02-CED-0370_1	Black Hawk Creek	from mouth (Black Hawk Co.) to Hwy 58 at Hudson	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL ambient WQ monitoring
5b	IA 02-CED-0390_0	Dry Run	mouth to Black Hawk Co. tributary	aquatic life	biological (potentially includes industrial point source, and urban runoff/storm sewers)	low biotic index	IDNR/UHL biological monitoring
5b	IA 02-CED-0432_1	Middle Fork South Beaver Creek	mouth to Grundy Co. tributary 4 mi. NW Wellsburg	general use	biological (potentially includes organic enrichment/low DO and/or siltation)	low biotic index	IDNR/UHL biological monitoring
5a	IA 02-CED-0505_1	Unnamed Creek (aka Drainage Ditch 3)	mouth (Charles City) to confluence with unnamed tributary in T95N R16W Sec 4, Floyd Co.	aquatic life (general use)	chlorine	fish kill	IDNR fish kill investigation

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5b	IA 02-IOW-0020_1	Iowa River	from Cedar R. to Johnson/Washington Co. line	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5b	IA 02-IOW-0020_2	Iowa River	from Johnson/Washington Co. line to English R.	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5a & 5b	IA 02-IOW-0030_1	Iowa River	from English R. to Burlington St. dam in Iowa City	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL ambient city water quality monitoring
5b & 5a	IA 02-IOW-0030_1	Iowa River	from English R. to Burlington St. dam in Iowa City	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5a & 5b	IA 02-IOW-0030_2	Iowa River	from Burlington St. dam to Coralville dam	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL ambient city water quality monitoring
5b & 5a	IA 02-IOW-0030_2	Iowa River	from Burlington St. dam to Coralville dam	aquatic life	biological (potentially includes flow alteration, habitat modification, nutrients, and/or siltation)	> 50% decline in mussel species richness	ISU freshwater mussel study
5a	IA 02-IOW-0040-L_0	Coralville Reservoir	entire reservoir	primary contact	indicator bacteria	geometric means > WQS	UI/ACOE beach monitoring
5a	IA 02-IOW-0050_1	Iowa River	upper end Coralville Reservoir to Hwy 149	primary contact	indicator bacteria	geometric means > WQS	UI/ACOE ambient water quality monitoring
5a	IA 02-IOW-0060_4	Iowa River	from Timber Cr. to Asher Cr (Marshall Co.)	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL ambient city water quality monitoring
5a	IA 02-IOW-0060_5	Iowa River	from Asher Cr. to Minerva Cr. (Marshall Co.)	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL ambient city water quality monitoring



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5a	IA 02-IOW-0070_2	Iowa River	from Hardin/Marshall line to S. Fk. Iowa R.	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5b	IA 02-IOW-0090_1	Long Creek	mouth to unnamed tributary SSE Columbus City	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 1995
5b	IA 02-IOW-0090_2	Long Creek	from unnamed tributary to N line, S3, T74N, R5W	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 1995
5a	IA 02-IOW-0155_1	Ralston Creek	mouth to unnamed tributary from south T80N R9W Sec22 to headwaters (Iowa Co)	aquatic life (general use)	priority organics organic enrichment/Low DO	coal tar site; studies suggest influence on surface water	Coal tar studies in 1995, 1998, and 2001.
5a	IA 02-IOW-0161_0	Clear Creek	from mouth to L. Bear Cr. (Poweshiek Co.)	general use			
5b	IA 02-IOW-0180_1	Bear Creek	from mouth to L. Bear Cr. (Poweshiek Co.)	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 1999
5b	IA 02-IOW-0187_2	Walnut Creek	from N. Walnut Cr. to unnamed tributary (Poweshiek Co.)	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biocriteria sampling, 1999
5a	IA 02-IOW-02195-L_0	Union Grove Lake	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-02; information from IDNR Fisheries.
5a	IA 02-IOW-02195-L_0	Union Grove Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-02; information from IDNR Fisheries.
5b	IA 02-IOW-0380_1	East Branch Iowa River	mouth to Hancock Co. tributary N of Goodell SWMA	aquatic life	biological (potentially due to organic enrichment)	low biotic index	IDNR/UHL biocriteria sampling, 2001
5a	IA 02-SHL-00105-L_0	Avenue Of The Saints Lake	entire lake	aquatic life	algae	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-02.; information from IDNR Fisheries
5a	IA 02-SHL-00105-L_0	Avenue Of The Saints Lake	entire lake	aquatic life	exotic species	common carp	ISU statewide lakes survey, 2000-02.; information from IDNR Fisheries
5a	IA 02-SHL-00105-L_0	Avenue Of The Saints Lake	entire lake	aquatic life	turbidity	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-02.; information from IDNR Fisheries

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5b	IA 02-SHL-0023_0	Coldwater Creek	mouth to unnamed tributary in Cerro Gordo Co.	aquatic life	biological	fish kill in 2002	IDNR fish kill investigation
5b	IA 02-SHL-00235_0	Palmer Creek	mouth to headwaters (Butler Co.)	aquatic life	ammonia	fish kill in 2000	IDNR fish kill investigation
5b	IA 02-SHL-00235_0	Palmer Creek	mouth to headwaters (Butler Co.)	aquatic life	organic enrichment/low DO	fish kill in 2000	IDNR fish kill investigation
5a	IA 02-SHL-00295-L_0	Silver Lake	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-02; information from IDNR Fisheries.
5a	IA 02-SHL-00295-L_0	Silver Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lakes survey, 2000-02; information from IDNR Fisheries.
5a	IA 02-WFC-0090-L_0	Beeds Lake	entire lake	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL beach monitoring
5b	IA 02-WIN-0020_2	Winnebago River	from Pike Run to IA/MN state line	aquatic life	organic enrichment	low biotic index	IDNR/UHL biocriteria sampling, 2000
5a	IA 02-WIN-00450-L_0	Clear Lake	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries
5a	IA 02-WIN-00450-L_0	Clear Lake	entire lake	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL beach monitoring
5a	IA 02-WIN-00450-L_0	Clear Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries
5a	IA 02-WIN-00465-L_0	Ventura Marsh	entire wetland	aquatic life	exotic species	common carp prevent growth of wetland vegetation through increased turbidities	Information from IDNR Fisheries Bureau
5b	IA 03-NSK-0020_2	North Skunk River	from the Mahaska/Poweshie k co. line to Sugar Cr.	aquatic life	biological (potentially includes habitat alterations, siltation, turbidity, and suspended solids)	low biotic index	IDNR/UHL biocriteria sampling, 1999
5a	IA 03-SKM-0010_1	Mississippi River	from IA/MO line to Sugar Cr. near Ft. Madison	drinking water	arsenic	violations of human health criterion (0.18 ug/l)	Illinois EPA ambient WQ monitoring

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5a	IA 03-SKU-0010_1	Skunk River	mouth to Big Cr. near Mt. Pleasant, Henry Co.	aquatic life	dieldrin	violations of human health criterion (0.0014 ug/l)	USGS NAWQA monitoring, 1996-1998
5a	IA 03-SKU-0085_0	Saunders Branch	mouth to headwaters in Henry Co.	aquatic life (general use)	ammonia	overwhelming evidence of impacts from coal tar site and/or discharge from WWTP	IDNR/UHL biocriteria sampling, 1998
5a	IA 03-SKU-0085_0	Saunders Branch	mouth to headwaters in Henry Co.	aquatic life (general use)	organic enrichment/low DO	overwhelming evidence of impacts from coal tar site and/or discharge from WWTP	IDNR/UHL biocriteria sampling, 1998
5a	IA 03-SKU-0085_0	Saunders Branch	mouth to headwaters in Henry Co.	aquatic life (general use)	priority organics	overwhelming evidence of impacts from coal tar site and/or discharge from WWTP	IDNR/UHL biocriteria sampling, 1998
5a	IA 03-SKU-00945-L_0	Walton Reservoir	entire lake	drinking water	atrazine	average levels > MCL	Results of Syngenta Inc. monitoring
5b	IA 03-SKU-0130_0	West Fork Crooked Creek	CROOKED CR, W FK	aquatic life	biological	fish kill in 2002	Results of IDNR fish kill investigation.
5a	IA 03-SSK-0010_3	South Skunk River	from Hwy 63 (Oskaloosa) to Elk Cr. NE of Pella	drinking water	nitrate	> 10% of samples > MCL	IDNR ambient WQ monitoring
5a	IA 03-SSK-00118-L_0	White Oak Conservation Area Lake	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau
5a	IA 03-SSK-00118-L_0	White Oak Conservation Area Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau
5a	IA 03-SSK-0030_2	South Skunk River	from Ames Water Works dam to Co.Rd. 1 mi NNE Story City	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5a	IA 03-SSK-00360-L_0	Little Wall Lake	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau

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5a	IA 03-SSK-00360-L_0	Little Wall Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau
5b	IA 03-SSK-0057_0	Ballard Creek	BALLARD CR	aquatic life	ammonia	fish kill in 2002	Results of IDNR fish kill investigation.
5b	IA 03-SSK-0057_0	Ballard Creek	BALLARD CR	aquatic life	organic enrichment/low DO	fish kill in 2002	Results of IDNR fish kill investigation.
5b	IA 03-SSK-0058_0	Walnut Creek	mouth to Story Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biocriteria sampling, 1999
5b	IA 03-SSK-0090_0	Long Dick Creek	mouth to bridge crossing in Hamilton Co., 4 mi N Roland	aquatic life	biological (potentially includes organic enrichment/low DO and/or habitat alterations)	low biotic index	IDNR/UHL biocriteria sampling, 1997
5b	IA 03-SSK-0100_0	Drainage Ditch 71	mouth to Rahto Branch and Loop Branch ditches	general use	biological (potentially includes habitat alterations; fish kill due to ammonia; organic enrichment/low DO; source biological)	fish kill in 1999; low biotic index in 1997	Results of IDNR fish kill investigation; IDNR/UHL biological sampling in 1997
5a	IA 04-EDM-0010_1	East Fork Des Moines River	mouth to Hwy 169 at Devine Access	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5b	IA 04-EDM-0020_2	East Fork Des Moines River	Prairie Cr. to tributary S. of Armstrong, Emmet Co.	aquatic life	biological (potentially habitat alterations and/or siltation)	low biotic index	IDNR/UHL biocriteria sampling, 1997
5a	IA 04-EDM-0020_4	East Fork Des Moines River	from Soldier Cr. to Tuttle Lake (Emmet Co.)	aquatic life	organic enrichment/low DO	3 of 10 samples (30%) violated DO WQS	Minnesota PCA ambient WQ monitoring
5a	IA 04-EDM-00290-L_0	Tuttle Lake (a.k.a. Okamanpeedan Lake)	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau
5a	IA 04-EDM-00290-L_0	Tuttle Lake (a.k.a. Okamanpeedan Lake)	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau

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5b	IA 04-EDM-0090_2	Buffalo Creek	from Union Slough outlet to L. Buffalo Cr.	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological sampling, 2000
5b	IA 04-EDM-0090_3	Buffalo Creek	from L. Buffalo Cr. to DD 48	aquatic life	biological (potentially habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological sampling, 2000
5a	IA 04-FOX-0010_2	Fox River	from tributary NW of Pulaski to tributary SW Drakesville	aquatic life	ammonia	violations of WQ criteria	USGS WQ monitoring, 1998-99; IDNR/UHL biological monitoring
5a	IA 04-FOX-0010_2	Fox River	from tributary NW of Pulaski to tributary SW Drakesville	aquatic life	organic enrichment/low DO	violations of WQ criteria; low biotic index	USGS WQ monitoring, 1998-99; IDNR/UHL biological monitoring
5b & 5a	IA 04-FOX-0010_2	Fox River	from tributary NW of Pulaski to tributary SW Drakesville	aquatic life	habitat alterations	low biotic index	IDNR/UHL biological monitoring
5a	IA 04-LDM-00150-L_0	Indian Lake	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau
5a	IA 04-LDM-00150-L_0	Indian Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau
5a	IA 04-LDM-0020_1	Des Moines River	from Soap Cr. to Ottumwa dam	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient city WQ monitoring
5a	IA 04-LDM-00215-L_0	Ottumwa Lagoon	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau
5a	IA 04-LDM-00215-L_0	Ottumwa Lagoon	entire lake	fish consumption	chlordane	> FDA action level	ISU statewide lake survey; fish contaminant (RAFT) monitoring

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5a	IA 04-LDM-00215-L_0	Ottumwa Lagoon	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey, 2000-02; information from IDNR Fisheries Bureau
5a	IA 04-LDM-00380-L_0	Roberts Creek Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey; information from IDNR Fisheries Bureau
5a	IA 04-LDM-0040_1	Des Moines River	from upper end of Red Rock Reservoir to South R.	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL ambient WQ monitoring
5a	IA 04-LDM-0040_2	Des Moines River	from South R. to North R.	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL ambient WQ monitoring
5a	IA 04-LDM-0040_3	Des Moines River	from North R. to Raccoon R.	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL ambient WQ monitoring
5a	IA 04-LDM-00490-L_0	Easter Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey; information from IDNR Fisheries Bureau
5b	IA 04-LDM-0140_1	Muchakinock Creek	mouth (at Eddyville) to L. Muchakinock Cr., Mahaska Co.	aquatic life	biologicals (potentially includes biological toxicity; habitat alterations and/or nutrients)	low biotic index	IDNR/UHL biological sampling, 2000
5b	IA 04-LDM-0140_2	Muchakinock Creek	from L. Muchakinock Cr. to Mahaska Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biological sampling, 2000
5a	IA 04-LDM-01995-L_0	Williamson Pond	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey
5a	IA 04-LDM-0200_0	White Breast Creek	from mouth to Little White Breast Cr.	aquatic life	organic enrichment/low DO	FST w/ declining trend in DO levels	IDNR/UHL ambient monitoring
5b	IA 04-LDM-0210_2	White Breast Creek	from Brush Cr. near Lucas to Clarke Co. tributary	aquatic life	biological (potentially includes habitat alterations and siltation)	low biotic index	IDNR/UHL biological monitoring in 2002
5a	IA 04-LDM-02190-L_0	East Lake (Osceola)	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey
5a	IA 04-LDM-02190-L_0	East Lake (Osceola)	entire lake	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey

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5b	IA 04-LDM-0228_0	Camp Creek	mouth (Marion Co.) to unnamed tributary, Polk Co.	aquatic life	biological (potentially includes habitat alterations)	low biotic index	IDNR/UHL biological monitoring in 1999 and 2001
5a	IA 04-LDM-02294-L_0	Morris Lake	entire lake	drinking water	atrazine	average levels > MCL	Syngenta Inc., VMP
5b	IA 04-LDM-0270_0	Middle River	from mouth to Clanton Cr. near Martensdale, Warren Co.	aquatic life	biological (potentially includes habitat alterations and/or organic enrichment/low DO)	low biotic index	IDNR/UHL biological monitoring in 2002
5a	IA 04-LDM-02870-L_0	Meadow Lake	entire lake	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey
5b	IA 04-LDM-0300_2	North River	from county road R-63 to Badger Creek	aquatic life	Biological	low biotic index	IDNR/UHL biological monitoring in 2002
5a	IA 04-LDM-03085-L_0	Cedar Lake	entire lake	drinking water	nitrate	PWS notices of violation (NO3)	IDNR Annual Compliance Reports
5b	IA 04-LDM-0320_1	Fourmile Creek	mouth to Co.Rd. bridge (First Street, Ankeny), Polk Co.	aquatic life	organic enrichment/low DO	low biotic index	IDNR/UHL biological monitoring in 1999
5a	IA 04-LDM-0340_0	Yeader Creek	upper end Easter L. to headwaters (at DSM Internat. Airport)	aquatic life (general use)	priority organics	de-icers from DMIA in stream; aquatic community in poor condition	1997 IDNR assessment; 1999-2002 monitoring by DMI Airport; lowwater data from 2000-01
5a	IA 04-RAC-0010_1	Raccoon River	mouth to the Polk/Dallas county line	aquatic life	copper	two samples > chronic WQ criterion	IDNR/UHL ambient city WQ monitoring
5a	IA 04-RAC-0010_1	Raccoon River	mouth to the Polk/Dallas county line	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient city WQ monitoring, and ISU/ACOE monitoring
5a	IA 04-RAC-0010_1	Raccoon River	mouth to the Polk/Dallas county line	drinking water	nitrate	> 25% of samples exceed MCL	IDNR/UHL ambient city WQ monitoring, ISU/ACOE monitoring, and DMWW monitoring
5a	IA 04-RAC-0010_2	Raccoon River	Polk/Dallas co. line to confluence of N & S raccoon rivers	aquatic life	copper	two samples > chronic WQ criterion	IDNR/UHL ambient city WQ monitoring

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5a	IA 04-RAC-0010_2	Raccoon River	Polk/Dallas co. line to confluence of N & S raccoon rivers	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient city WQ monitoring, and ISU/ACOE monitoring
5a	IA 04-RAC-0010_2	Raccoon River	Polk/Dallas co. line to confluence of N & S raccoon rivers	drinking water	nitrate	> 25% of samples exceed MCL	IDNR/UHL ambient city WQ monitoring, ISU/ACOE monitoring, and DMWW monitoring
3b	IA 04-RAC-0020_1	Walnut Creek	mouth to Interstate 35/80	aquatic life	biological (potentially includes habitat alterations)	low biotic index	IDNR/UHL biological monitoring in 1998
5a	IA 04-RAC-0040_1	North Raccoon River	from Buttrick Cr. to Short Cr.	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring
5a & 5b	IA 04-RAC-0040_5	North Raccoon River	from Camp Cr. (Calhoun Co.) to Indian Cr. (Sac Co.)	primary contact	indicator bacteria	geometric mean > WQS	IDNR/UHL ambient WQ monitoring
5b & 5a	IA 04-RAC-0040_5	North Raccoon River	from Camp Cr. (Calhoun Co.) to Indian Cr. (Sac Co.)	aquatic life	biological	low biotic index	IDNR/UHL biological monitoring in 1999
5a	IA 04-RAC-0040_6	North Raccoon River	from Indian Cr. to Cedar Cr. (Sac Co.)	primary contact	indicator bacteria	geometric mean > WQS	IDNR/UHL ambient WQ monitoring
5a	IA 04-RAC-00475-L_0	Black Hawk Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: trophic state index > 70	ISU statewide lake survey
5a	IA 04-RAC-00475-L_0	Black Hawk Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: trophic state index > 70	ISU statewide lake survey
5a	IA 04-RAC-00530-L_0	Storm Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 79; Chl-a trophic state index = 58.	ISU statewide lake survey
5a	IA 04-RAC-00805-L_0	Spring Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 69; Chl-a trophic state index = 53.	ISU statewide lake survey



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5b	IA 04-RAC-0123_0	Marrowbone Creek	MARROWBONE CR	aquatic life	biological (potentially includes organic enrichment/low DO, habitat alterations, and/or siltation)	low biotic index; continuous DO monitoring shows levels < 3 during night and < 5 during daytime	IDNR/UHL biological (REMAP) monitoring
5a	IA 04-RAC-0200_3	Middle Raccoon River	from Panora drinking water intake to Lake Panorama dam	drinking water	nitrate	Four notices of MCL violations for nitrate issued by Panora from 2000-2002.	IDNR Water Supply Section
5a	IA 04-UDM-0010_2	Des Moines River	from Center St. Dam (Des Moines) to I 80/35 bridge	drinking water	nitrate	> 10% of samples exceed MCL	DMWW monitoring and ISU/ACOE monitoring
5a	IA 04-UDM-01020-L_0	Silver Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: Chl-a trophic state index = 73.	ISU statewide lake survey
5a	IA 04-UDM-01020-L_0	Silver Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 83.	ISU statewide lake survey
5a	IA 04-UDM-0110_1	Beaver Creek	mouth to Polk/Dallas county line	aquatic life	TDS	Four of 36 samples > general WQS for TDS; viols either in January or October.	IDNR/UHL ambient WQ monitoring
5b	IA 04-UDM-0170_0	Skillet Creek	mouth to Webster Co. tributary	aquatic life	biological (potentially includes ammonia and/or organic enrichment/low DO)	low biotic index believed due to WWTP discharge	IDNR/UHL biological (biocriteria) monitoring
5b	IA 04-UDM-0215_0	Lyons Creek	mouth (at Webster City) to headwaters	general use	biological	fish kill in 2001. Although traced to tile line, no cause/source identified.	IDNR fish kill investigation
5a	IA 04-UDM-02290-L_0	Lake Cornelia	Wright County, Section 16 T92N R24W	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey
5a	IA 04-UDM-02290-L_0	Lake Cornelia	Wright County, Section 16 T92N R24W	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey
5a	IA 04-UDM-0247_0	Buttermilk Creek	Buttermilk Creek	aquatic life (general use)	organic enrichment/low DO	Citizen and IDNR documentation of evidence of human waste in stream; several narrative WQS violated.	IOWATER volunteer; IDNR follow-up investigation

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5b	IA 04-UDM-0253_1	West Otter Creek	mouth to Wright-Hancock county line	general use	biological	Fish kill in 2000; pollutant suspected but no cause/source identified.	IDNR fish kill investigation
5b	IA 04-UDM-0375_0	Prairie Creek	mouth to Palo Alto Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring
5a	IA 04-UDM-03850-L_0	Five Island Lake	Palo Alto County at Emmetsburg	primary contact	algae	aesthetically objectionable conditions	ISU statewide lake survey
5a	IA 04-UDM-03850-L_0	Five Island Lake	Palo Alto County at Emmetsburg	primary contact	turbidity	aesthetically objectionable conditions	ISU statewide lake survey
5a	IA 04-UDM-03985-L_0	Ingham Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: Secchi and Chl-a trophic state index >70.	ISU statewide lake survey
5a	IA 04-UDM-03985-L_0	Ingham Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi and Chl-a trophic state index >70.	ISU statewide lake survey
5a	IA 05-CHA-0030_1	Chariton River	from upper end of Rathbun Lake to Hwy 14, Lucas Co.	aquatic life	organic enrichment/low DO	6 of 30 samples violated DO WQS	ISU/Rathbun watershed project
5a	IA 05-CHA-0030_1	Chariton River	from upper end of Rathbun Lake to Hwy 14, Lucas Co.	aquatic life	pH	11 of 32 samples violated (low) pH WQS	ISU/Rathbun watershed project
5b	IA 05-CHA-0030_2	Chariton River	From Hwy 14 to Chariton Cr. (Lucas Co.)	aquatic life	biological (potentially includes siltation and/or habitat alterations)	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2002
5a	IA 05-CHA-00330-L_0	Centerville Reservoir Lower	entire lake	drinking water	atrazine	average level of atrazine > MCL	Syngenta, Inc. voluntary monitoring program
5a	IA 05-CHA-0060_1	South Fork Chariton River	mouth (at Rathbun Lake) to Ninemile Cr.	aquatic life	organic enrichment/low DO	3 of 30 samples (10%) violated DO WQS; assess as FST/declining trend	ISU/Rathbun watershed project
5a	IA 05-CHA-0060_2	South Fork Chariton River	from Ninemile Creek to dam of Bob White Lake	aquatic life	organic enrichment/low DO	3 of 26 samples (12%) violated DO WQS	ISU/Rathbun watershed project
5a	IA 05-CHA-0062_0	Jordan Creek	mouth to unnamed tributary 2.5 mi. ESE Millerton	aquatic life	ammonia	Violations of ammonia WQS (3) in 27 samples	ISU/Rathbun watershed project
5a	IA 05-CHA-0062_0	Jordan Creek	mouth to unnamed tributary 2.5 mi. ESE Millerton	aquatic life	organic enrichment/low DO	Violations of DO WQS (4) in 27 samples	ISU/Rathbun watershed project

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5b	IA 05-CHA-0064_0	West Jackson Creek	W JACKSON CR	aquatic life	Biological	low biotic index	IDNR Fisheries Bureau
5a	IA 05-CHA-0066_0	Ninemile Creek	mouth to unnamed tributary	aquatic life	organic enrichment/low DO	Violations of DO WQS (3 in 26 samples)	ISU/Rathbun watershed project
5b	IA 05-CHA-0067_0	Dick Creek	mouth trib Section 18 T69N R22W, Wayne County	aquatic life	Biological	low biotic index	IDNR Fisheries Bureau
5a	IA 05-CHA-0068_0	Honey Creek	mouth (at Rathbun Lake) to unnamed tributary (Lucas Co.)	aquatic life	organic enrichment/low DO	Violations of DO WQS (12% of samples)	ISU/Rathbun watershed project
5a	IA 05-CHA-00690-L_0	Bob White Lake	entire lake	primary contact	indicator bacteria	geometric mean > WQS	IDNR/UHL ambient WQ monitoring
5a	IA 05-CHA-0070_0	Wolf Creek	mouth (Lucas Co.) to unnamed tributary in Wayne Co.	aquatic life	organic enrichment/low DO	24% of samples violated DO WQS	ISU/Rathbun watershed project
5a	IA 05-CHA-0070_0	Wolf Creek	mouth (Lucas Co.) to unnamed tributary in Wayne Co.	aquatic life	pH	24% of samples violated (low) pH WQS	ISU/Rathbun watershed project
5a	IA 05-GRA-0040_0	Thompson River	from Iowa/Missouri state line to Long Cr., Decatur Co.	primary contact	indicator bacteria	geometric mean > WQS	IDNR/UHL ambient WQ monitoring
5b	IA 05-GRA-0080_0	Little River	from Iowa/ Missouri line to dam	aquatic life	Biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring
5a	IA 05-GRA-01410-L_0	Thayer Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 69	ISU statewide lake survey
5a	IA 05-GRA-01550-L_0	Home Pond	entire lake	drinking water	atrazine	average level of atrazine > MCL	Syngenta, Inc. voluntary monitoring program
5a	IA 05-GRA-01920-L_0	Loch Ayr	entire lake	drinking water	atrazine	declining water quality trend	Syngenta, Inc. voluntary monitoring program
5b	IA 05-NOD-0070_0	Middle Nodaway River	from W. Fk. Middle Nodaway R. to Adair Co. tributary	aquatic life	biological (potentially including habitat alterations, organic enrichment, siltation, and turbidity)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 1998
5a	IA 05-NOD-00930-L_0	Viking Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: Chl-a trophic state index = 68	ISU statewide lake survey

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5b	IA 05-NOD-0100_2	West Nodaway River	From Threemile Cr. to Whislers Branch, Cass Co.	aquatic life	biological (potentially including, habitat alterations, turbidity, and/or siltation)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 1998
5b	IA 05-NSH-0020_5	East Nishnabotna River	from Montgomery/Cass co. line to Indian Cr. near Lewis	aquatic life	biological (potentially includes habitat alterations)	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2002
5a	IA 05-NSH-00220-L_0	Pierce Creek Pond	entire lake	primary contact	exotic species	common carp	information from IDNR Fisheries Bureau
5a	IA 05-NSH-00220-L_0	Pierce Creek Pond	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 72 (Chl-a trophic state index= 62).	ISU statewide lake survey
5a	IA 05-NSH-00310-L_0	Cold Springs Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: Chl-a trophic state index = 68.	ISU statewide lake survey
5a	IA 05-NSH-00310-L_0	Cold Springs Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 69.	ISU statewide lake survey
5a	IA 05-NSH-00675-L_0	Littlefield Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: Chl-a trophic state index = 69.	ISU statewide lake survey
5a	IA 05-NSH-00675-L_0	Littlefield Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 69.	ISU statewide lake survey
5b	IA 05-NSH-0090_4	West Nishnabotna River	from Crawford-Carroll Co. line to tributary NE of Manning	general use	biological (fish kill due to ammonia and organic enrichment/low DO: source biological)	fish kill in 2001; caused by animal waste; no source identified.	IDNR fish kill investigation
5b	IA 05-NSH-0100_1	Walnut Creek	mouth to unnamed tributary 4 mi NW of Red Oak	aquatic life	biological	low biotic index	information from IDNR Fisheries Bureau
5b	IA 05-NSH-0100_2	Walnut Creek	from tributary NW of Red Oak to tributary SSE of Walnut	aquatic life	biological	low biotic index	information from IDNR Fisheries Bureau

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5b	IA 05-NSH-0120_0	Silver Creek	Middle Silver Creek to Little Silver Creek Shelby County	aquatic life	biological	low biotic index	information from IDNR Fisheries Bureau
5b	IA 05-NSH-0133_0	Jordan Creek	mouth to Spring Cr., Pottawattamie Co.	aquatic life	biological (potentially includes siltation)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2001
5b	IA 05-NSH-0140_1	East Branch West Nishnabotna River	mouth to confluence with Prairie Rose outlet, Shelby Co.	aquatic life	biological (potentially includes siltation)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2000
5a	IA 05-NSH-01440-L_0	Prairie Rose Lake	entire lake	primary contact	algae	chlorophyll-a trophic state index = 68; Secchi trophic state index = 66.	IDNR/UHL beach monitoring; ISU statewide lake survey
5a	IA 05-NSH-01440-L_0	Prairie Rose Lake	entire lake	primary contact	indicator bacteria	geometric means > WQS	IDNR/UHL beach monitoring; ISU statewide lake survey
5a	IA 05-PLA-00295-L_0	Green Valley Lake	entire lake	primary contact	algae	Chlorophyll-a trophic state index = 67.	ISU statewide lake survey
5b	IA 05-PLA-0040_1	West Branch One Hundred and Two River	mouth to M. Br. 102 R. NW of Gravity	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 1995
5a	IA 05-PLA-00430-L_0	Windmill Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: trophic state index for chlorophyll-a and Secchi = 70.	ISU statewide lake survey
5b	IA 05-TAR-0020_0	West Tarkio Creek	IA/MO line to Page Co. tributary SE of Essex	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 1995
5a & 5b	IA 06-BSR-0010_3	Big Sioux River	from Brule Cr. (SD) to Indian Cr. in NW Plymouth Co.	primary contact	indicator bacteria	geometric mean > WQS	South Dakota ambient WQ monitoring
5b & 5a	IA 06-BSR-0010_3	Big Sioux River	from Brule Cr. (SD) to Indian Cr. in NW Plymouth Co.	aquatic life	biological	Level of DO during daytime fish kill investigation was 0.5 mg/l	IDNR and South Dakota joint investigation of a 2001 fish kill
5a	IA 06-BSR-0010_4	Big Sioux River	from Indian Cr. in NW Plymouth Co. to Rock R., Sioux Co.	primary contact	indicator bacteria	geometric mean > WQS	South Dakota ambient WQ monitoring
5a	IA 06-BSR-0020_1	Big Sioux River	from Rock R. to Beaver Cr. near Canton, SD & Beloit, IA	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	South Dakota ambient WQ monitoring

IR Category	Waterbody ID Number	Waterbody Name	Segment Description	Designated Use Impaired	Cause / Stressor for 2004 303(d) list	Rationale for 303(d) listing	Data Source
5a	IA 06-BSR-0020_2	Big Sioux River	from Beaver Cr. (SD) to Ninemile Cr. (SD; W of Larchwood IA)	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	South Dakota ambient WQ monitoring
5b	IA 06-BSR-0023_0	Broken Kettle Creek	BROKEN KETTLE CR	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2002
5a	IA 06-BSR-0029_0	Sixmile Creek	mouth to Sioux Co. tributary	aquatic life	ammonia	violations of ammonia WQS	IDNR/UHL TMDL monitoring in 2002; also IDNR/UHL biological (biocriteria) monitoring in 2000;
5b	IA 06-BSR-0030_0	Rock River	from mouth to L. Rock R. near Doon (Lyon Co.)	aquatic life	biological (fish kill attributed to ammonia and organic enrichment/low DO: source unknown)	fish kill in 2002; caused by animal waste; no source identified.	IDNR fish kill investigation
5b	IA 06-BSR-0072_0	Otter Creek	from unnamed tributary at Sibley to IA/MN state line	general use	biological (fish kill attributed to ammonia and organic enrichment/low DO: source unknown)	fish kills in 2001 and 2002; 2001 kill caused by animal waste; no source identified.	IDNR fish kill investigation
5a	IA 06-FLO-0010_0	Floyd River	mouth to W. Br. Floyd R. near Merrill (Plymouth Co.)	aquatic life	ammonia	Three of 50 samples > chronic WQS	IDNR/UHL ambient WQ monitoring
5b	IA 06-FLO-0020_2	Floyd River	from city of Alton to N. Fk. Floyd R., O'Brien Co.	aquatic life	biological (fish kills attributed to ammonia and organic enrichment/low DO: source unknown)	Four fish kills since 1997; two in 2002; low biotic index	IDNR fish kill investigations; IDNR/UHL biological (biocriteria) monitoring
5b	IA 06-FLO-0040_0	West Branch Floyd River	from Orange City Slough to Sioux Co. tributary	aquatic life	biological (potentially includes siltation and/or other habitat alterations)	low biotic index	IDNR/UHL biological (biocriteria) monitoring
5b	IA 06-FLO-0080_0	Little Floyd River	mouth (Sioux Co.) to Lamkin Cr. SW of Sheldon	aquatic life	biological (potentially includes organic enrichment/low DO and/or siltation)	low biotic index	IDNR/UHL biological monitoring in 1999, 2001, and 2002.
5a	IA 06-LSR-0030_1	Little Sioux River	from Hwy 3 at Cherokee to Waterman Cr. (O'Brien Co.)	primary contact	indicator bacteria	> 10% of samples > 400 orgs / 100 ml	IDNR/UHL ambient WQ monitoring

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5a	IA 06-LSR-00315-L_0	Dog Creek Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: trophic state index = 65 for Secchi (= 56 for chlorophyll-a).	ISU statewide lake survey
5b	IA 06-LSR-0170_0	Mill Creek	mouth to Whiskey Cr., O'Brien Co.	aquatic life	biological (potentially includes organic enrichment/low DO, habitat alterations, and/or siltation)	low biotic index	IDNR/UHL biological monitoring in 1998 and 2002
5b	IA 06-LSR-0223_0	Willow Creek	mouth to unnamed tributary 4 miles SSE of Royal	aquatic life	biological (potentially includes organic enrichment/low DO and/or ammonia)	declining trend in biotic index from 1999 to 2002; pollutant (manure)-caused fish kills in 2001 and 2002	IDNR/UHL biological monitoring in 1999 (biocriteria) and 2002 (REMAP); IDNR fish kill investigations in 2001 and 2002.
5a	IA 06-LSR-02390-L_0	Lost Island Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 71 (chlorophyll-a trophic state index = 60).	ISU statewide lake survey
5a	IA 06-LSR-02450-L_0	Trumbull Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: chlorophyll-a trophic state index = 80.	ISU statewide lake survey
5a	IA 06-LSR-02450-L_0	Trumbull Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 87.	ISU statewide lake survey
5a	IA 06-LSR-02870-L_0	Little Spirit Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: chlorophyll-a trophic state index = 66	ISU statewide lake survey
5a	IA 06-LSR-02870-L_0	Little Spirit Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 70	ISU statewide lake survey

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5b	IA 06-LSR-0300_0	Milford Creek	mouth to unnamed tributary 1 mi. SE of Milford	aquatic life	biological (potentially includes organic enrichment/low DO, habitat alterations, and/or unknown toxicity)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2001
5b	IA 06-LSR-0305_0	Milford Creek	from unnamed tributary 1 mi. SE of Milford to Lower Gar Lake	aquatic life	biological (potentially includes organic enrichment/low DO, habitat alterations, and/or unknown toxicity)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2001
5b	IA 06-LSR-0310_0	West Fork Little Sioux River	mouth to IA/MN state line	aquatic life	biological	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 1996
5a	IA 06-LSR-03105-L_0	Silver Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 80 (chlorophyll-a trophic state index = 58).	ISU statewide lake survey
5b	IA 06-WED-0010_1	Keg Creek	mouth to Little Keg Cr. (Pottawattamie Co.)	aquatic life	biological (potentially includes habitat alterations and/or siltation)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 1997 and 2001
5b	IA 06-WED-0010_2	Keg Creek	from Little Keg Cr. to Harrison Co. tributary	aquatic life	biological	low biotic index	IDNR/UHL biological (REMAP) monitoring in 2002
5b	IA 06-WED-0020_1	Mosquito Creek	mouth to drinking water intake for Lake Manawa	aquatic life	biological (potentially includes habitat alterations and/or organic enrichment/low DO)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2000
5b	IA 06-WED-0020_2	Mosquito Creek	from drinking water intake at Lake Manawa to L. Mosquito Cr.	aquatic life	biological (potentially includes habitat alterations and/or organic enrichment/low DO)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2000



IR Category	Waterbody ID Number	Waterbody Name	Segment Description	Designated Use Impaired	Cause / Stressor for 2004 303(d) list	Rationale for 303(d) listing	Data Source
5b	IA 06-WED-0020_3	Mosquito Creek	from L. Mosquito Cr. to Spring Cr. near Persia, Harrison Co.	aquatic life	biological (potentially includes habitat alterations and/or organic enrichment/low DO)	low biotic index	IDNR/UHL biological (biocriteria) monitoring in 2000
5a	IA 06-WEM-0020_2	Missouri River	from water supply intake at Council Bluffs to Boyer R.	drinking water	arsenic	Violations of WQS (human health criteria) in 31 of 31 samples (100% violation)	USGS NASQAN ambient WQ monitoring
5a	IA 06-WEM-0020_2	Missouri River	from water supply intake at Council Bluffs to Boyer R.	primary contact	indicator bacteria	geometric mean > WQS	Nebraska DEQ ambient WQ monitoring in 2000
5a	IA 06-WEM-00235-L_0	Lake Manawa	entire lake	primary contact	algae	aesthetically objectionable conditions: chlorophyll-a trophic state index = 65	ISU statewide lake survey
5a	IA 06-WEM-00235-L_0	Lake Manawa	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 72	ISU statewide lake survey
5a	IA 06-WEM-00265-L_0	Carter Lake	entire lake	primary contact	algae	aesthetically objectionable conditions: Secchi trophic state index = 78; chlorophyll-a trophic state index = 77	ISU statewide lake survey
5a	IA 06-WEM-00265-L_0	Carter Lake	entire lake	primary contact	indicator bacteria	fecal geometric means > WQS	ISU statewide lake survey
5a	IA 06-WEM-00265-L_0	Carter Lake	entire lake	fish consumption	PCBs	Nebraska issued fish consumption advisory	Nebraska DEQ
5a	IA 06-WEM-00340-L_0	Desoto Bend	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 66 (chlorophyll-a trophic state index = 60)	ISU statewide lake survey
5a	IA 06-WEM-00445-L_0	Blue Lake (aka, Lewis And Clark Lake)	entire lake	primary contact	algae	aesthetically objectionable conditions: chlorophyll-a trophic state index = 65	ISU statewide lake survey
5a	IA 06-WEM-00445-L_0	Blue Lake (aka, Lewis And Clark Lake)	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 71	ISU statewide lake survey

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5a	IA 06-WEM-00485-L_0	Browns Lake	entire lake	primary contact	turbidity	aesthetically objectionable conditions: Secchi trophic state index = 72; (chlorophyll-a trophic state index = 60)	ISU statewide lake survey